



KEWARRA-1
WELL COMPLETION REPORT
ATP-633P
QUEENSLAND

Beach Petroleum Limited
A.B.N. 20227 617 969
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October 2007

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WELL DATA CARD**KEWARRA-1****PAGE 1 of 1**

Location:	Inline:	305	Permit:	ATP-633P	
	Xline:	247	Participants:	Beach Petroleum Ltd (Op)	85%
	Survey	Gidgee 3-D		Strike Oil	15%
	Latitude:	28° 30' 40.8321"S	Status:	Plugged and abandoned	
	Longitude:	141° 08' 48.9182"E	Type Structure:	Four Way Dip Anticline	
	Easting:	514 376.959 E	Rig:	Hunt	2
	Northing:	6 846 142.714 N	Total Depth:	Driller:	1630.0m
	Projection	MGA 94 Zone 54		Logger:	1631.2m
	Spheroid	GRS 80 Ellipsoid	Plugs:	No 1:	1578 – 1613m
	Datum	GDA 94		No 2:	1419 – 1538m
Elevation:	GL:	111.93m		No 3:	1234 – 1284m
	RT:	115.73m ASL		No 4:	1070 – 1187m
Date Spudded:	28/03/2007	18:30 hours		No 5:	938 – 988m
Reached TD:	09/04/2007	15:30 hours		No 6:	0 -15m
Date rig release:	12/04/2007	22:00 hours	Hole Sizes:	311mm (12 ¼")	581.0m
				216mm (8 ½")	1630.0m
			Casing:	Size	Shoe
			(a) Conductor	406mm (16")	11.0m
			(b) Surface	244mm (9 ⅝")	578.3m

STRATIGRAPHIC UNITS PENETRATED

AGE	FORMATION	Depth (mRT)	Depth (mSS)	Thickness (m)
L. Tertiary- Recent	Surficial & Winton Fm	3.8	0.0	530.0
E. Cretaceous	Mackunda Formation	538.8	423.1	82.1
E. Cretaceous	Oodnadatta Formation	620.9	505.1	342.1
E. Cretaceous	Coorikiana Sandstone	963.0	847.3	7.0
E. Cretaceous	Bulldog Shale	970.0	854.3	125.0
E. Cretaceous	Cadna-owie Formation	1095.0	979.3	66.9
E. Cretaceous	Murta Member	1161.9	1046.2	68.4
E. Cretaceous	Namur Sandstone	1230.3	1114.6	213.6
M. Jurassic	Birkhead Formation	1443.9	1328.1	22.3
M. Jurassic	Hutton Sandstone	1466.2	1350.5	32.8
E. Jurassic	Poolowanna Formation	1499.0	1383.2	4.3
E. Permian	Murteree Shale	1503.3	1387.5	15.1
E. Permian	Patchawarra Formation	1518.4	1402.7	69.1
Pre-Permian	Dullingari Group	1587.6	1471.8	42.7+
	TD	1630.0	1514.3	

WIRELINE LOGS (Schlumberger)

Type Log	Run	Interval (m)	Max Temp Recorded
HALS-BHC-PEX-GR	1	1628.91 – 577.3m GR to surface. (High resolution recorded 1490 – 1440m)	95.6deg C 8.75 hrs after circ. stopped
CST-GR	2	1611.0 – 1183.5m	30 shots attempted, 30 bullets fired, 30 cores recovered.
CST-GR	3	1478.9 – 1192.0m	16 shots attempted, 13 bullets fired, 13 cored recovered.

DRILL STEM TESTS

No	Formation / Interval (metres)	Periods (mins)	EMP IP/FP (psi)	EMP FSIP (psi)	Fluid to surface (mins)	Surface Press (max) (psi)	Result
1	Patchawarra Formation (1519.53 – 1536.09m) Conventional straddle	9/19 120/240	1788.51/ 1817.28	2086.17/ 2086.54	NGTS/ NOTS/	7psi	No flow to surface. 60 bbl of formation water recovered from drill pipe.

SUMMARY

Kewarra-1 was proposed as a wildcat well to test the oil potential of the Jurassic and Permian interval within a simple four way dip anticlinal structure located on the southern flank of the Cooper Basin, approximately 110 km southeast of Moomba. The prospect is a separate four way dip closure to the east of Gidgee and northwest of the Munro Field (Figure 1). To the west, three wells have been drilled on the Gidgee Dome, between 1989 and 1991. Gidgee-1 flowed oil from a lower Birkhead sand in excess of 1000 bopd with minor gas and recovered oil & gas cut watery mud from the Murta Formation. Around 7000 bbls of oil was produced from the Birkhead in Gidgee-1, before the well was abandoned due to falling production rate. Oil was also recovered from the Hutton / Basal Birkhead and Murta in Gidgee-2 and from the McKinlay Member in Gidgee-3. Oil production from the Hutton Sandstone is also established at the Munro Field, approximately 2 km to the south-east of Gidgee, where three wells have produced more than 7 kstb.

The primary reservoir objectives in Kewarra-1 were the Middle Jurassic Hutton Sandstone with strong secondary potential in the Permian Patchawarra Formation.

The nearest offset wells to Kewarra-1 are Gidgee-3, 1.2 km to the west, Gidgee-1, 1.4 km to the south-west, Gidgee-2, 1.7 km to the west and Munro-3, 2.0 km to the south-east.

Kewarra-1 spudded on the 28th March 2007 (1830 hrs). A 311mm (12 ¼”) hole was drilled to 581.0 and 244mm (9 5/8”) surface casing was run and cemented at 578.3m. 8 ½” hole was drilled to 1586m where a conventional straddle test (DST 1) was performed in the Patchawarra Formation resulting in recovery of 60 bbls of formation water from the drill string. Formation water was also recovered from the sample chamber. The well was then drilled to a total depth of 1630m which was reached at 1530 hrs on 9th April 2007.

Trace dull yellow fluorescence was described from drill cuttings in the Cadna-owie Formation, while trace to 10% moderately bright bluish white fluorescence with a slow cut and thin white residue ring was described in the Murta Member. In the Birkhead Formation, 100% to trace moderate bright to bright yellow-white fluorescence with moderate blooming cut and a moderately bright yellow-white residue ring was described in cuttings from 1455 to 1464m, and 60% very dull to minor moderate bright fluorescence with moderate blooming cut and a moderately bright yellow-white

residue ring was described from 1464 to 1465m. 100% to trace dull to moderately bright yellow-white fluorescence with an instant blooming cut and moderate to thick yellow-white residue ring was described the Patchawarra Formation from 1521 to 1560m.

A three runs of wireline logs (PEX-HALS-BHC-GR and two SWCs runs) were acquired from TD to casing shoe, with GR recorded to surface on the first run. The first SWC run recovered 30 cores from 30 bullets fired and the second 13 from 16 bullets fired.

Kewarra-1 was plugged and abandoned and the rig released on 12th April 2007 at 2200 hrs.

Wellsite Geologist:	Doug Short	Card Prepared by:	Andrew Hodgson	Date:	October 07
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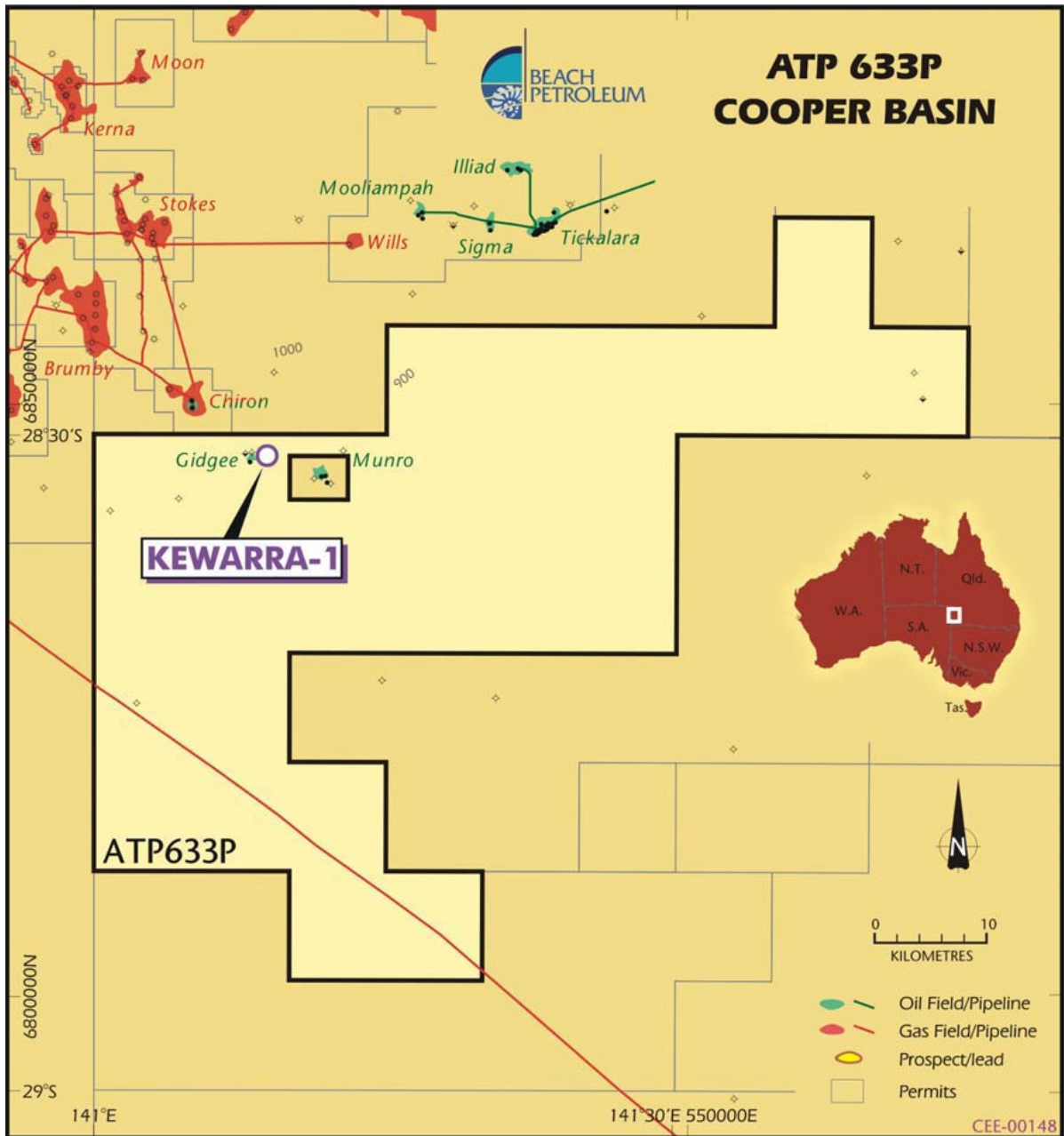


Figure 1: Kewarra-1 Location Map

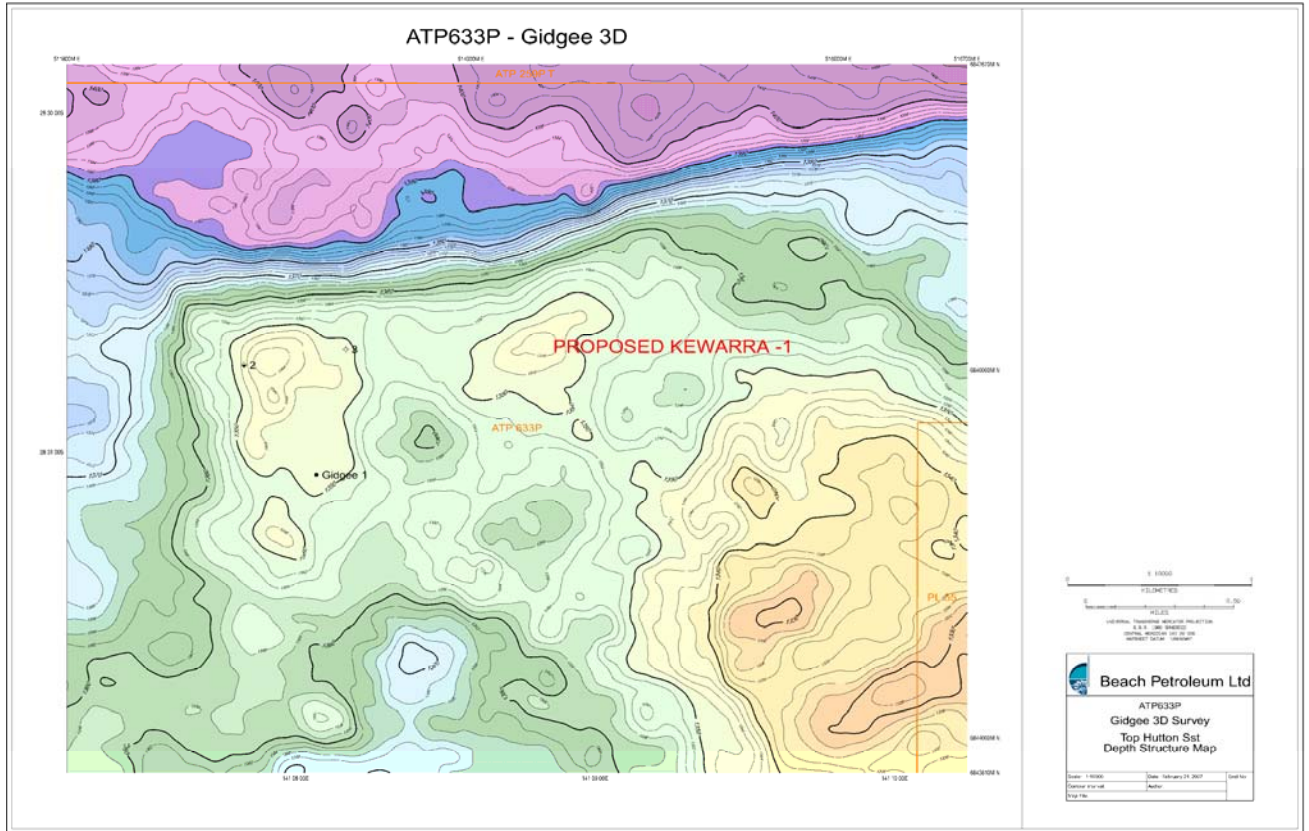


Figure 2: Kewarra-1 Pre Drill Top Hutton Depth Structure Map

1 SUMMARY

Kewarra-1 was proposed as a wildcat well to test the oil potential of the Jurassic and Permian interval within a simple four way dip anticlinal structure located on the southern flank of the Cooper Basin, approximately 110 km southeast of Moomba. The prospect is a separate four way dip closure to the east of Gidgee and northwest of the Munro Field (Figure 1). To the west, three wells have been drilled on the Gidgee Dome, between 1989 and 1991. Gidgee-1 flowed oil from a lower Birkhead sand in excess of 1000 bopd with minor gas and recovered oil & gas cut watery mud from the Murta Formation. Around 7000 bbls of oil was produced from the Birkhead in Gidgee-1, before the well was abandoned due to falling production rate. Oil was also recovered from the Hutton / Basal Birkhead and Murta in Gidgee-2 and from the McKinlay Member in Gidgee-3. Oil production from the Hutton Sandstone is also established at the Munro Field, approximately 2 km to the south-east of Gidgee, where three wells have produced more than 7 kstb.

The primary reservoir objectives in Kewarra-1 were the Middle Jurassic Hutton Sandstone with strong secondary potential in the Permian Patchawarra Formation.

The nearest offset wells to Kewarra-1 are Gidgee-3, 1.2 km to the west, Gidgee-1, 1.4 km to the south-west, Gidgee-2, 1.7 km to the west and Munro-3, 2.0 km to the south-east.

Kewarra-1 spudded on the 28th March 2007 (18:30 hrs). A 311mm (12 ¼") hole was drilled to 581.0 and 244mm (9 5/8") surface casing was run and cemented at 578.3m. 8 ½" hole was drilled to 1586 m where a conventional straddle test (DST 1) was performed in the Patchawarra Formation resulting in recovery of 60 bbls of formation water from the drill string. The sample chambers recovered formation water also. The well was then drilled to a total depth of 1630.0m which was reached at 15:30 hrs on 9th April 2007.

Trace dull yellow fluorescence was described from cutting in the Cadna-owie Formation, while trace to 10% moderately bright bluish white fluorescence with a slow cut and thin white residue ring was described in the Murta Member. In the Birkhead Formation 100% to trace moderate bright to bright yellow-white fluorescence with moderate blooming cut and a moderately bright yellow-white residue ring was described in cuttings from 1455.0 to 1464.0 m, and 60% very dull to minor moderate bright fluorescence with moderate blooming cut and a moderately bright yellow-white residue ring was described from 1464.0 to 1465.0 m. 100% to trace dull to moderately bright yellow-white fluorescence with an instant blooming cut and moderate to thick yellow-white residue ring was described the Patchawarra Formation from 1521.0 to 1560.0m.

A suite of three wireline logs (PEX-HALS-BHC-GR and two SWCs runs) were acquired from TD to casing shoe, with GR recorded to surface on the first run. The first SWC run recovered 30 cores from 30 bullets fired and the second 13 from 16 bullets fired.

Kewarra-1 was plugged and abandoned and the rig released on 12th April 2007 at 22:00 hrs.

2 WELL HISTORY

2.1 General Data

2.1.1	Well Name and Number	:	Kewarra-1	
2.1.2	Location	:	Latitude	28° 30' 40.8321"S
			Longitude	141° 08' 48.9182"E
			Easting	514 376.959 E
			Northing	6 846 142.714 N
			Projection	MGA 94 Zone 54
			Spheroid	GRS 80 Ellipsoid
			Datum	GDA 94
			Survey	Gidgee 3-D
			Inline	303
			Xline	245
2.1.3	Elevations	:	G.L.	111.9m
			R.T.	115.7m
2.1.4	Petroleum Tenement	:	ATP-633P	
2.1.5	Name of Operator	:	Beach Petroleum Ltd	(85%)
			Level 1, 25 Conyngham St	
			Glenside SA 5065	
2.1.6	Other Participants	:	Strike Oil Ltd	(15%)
			Level 9, Wesfarmers House,	
			40 The Esplanade,	
			Perth, Western Australia 6000	
2.1.7	Date Drilling Commenced	:	18:30 hours	28 th March, 2007
2.1.8	Date Drilling Completed	:	15:30 hours	9 th March, 2007
2.1.9	Date Rig Released	:	22:00 hours	12 th April, 2007
2.1.10	Total Depth	:	Driller	1630.0m MD
			Logger	1631.2m MD
2.1.11	Status:	:	Plugged and abandoned.	

All depths reported in this well completion report are measured depth relative to the rotary table (MDRT) unless otherwise stated.

2.2 Rig Data

- 2.2.1 Drilling Contractor : Hunt Energy and Mineral Co Australia Pty Ltd,
Lonsdale 15 Scarborough Way 5160 South Australia.
- 2.2.2 Rig : Rig #2
- 2.2.3 Draw Works : Mac Model-400 (500 HP)
Single Drum Draw works S/N 5-20-81.
Lebus 1-1/8" Main Drum Grooving.
Air Operated Makeup and Breakout Catheads fitted
with Tong Line Torque Gauge.
2 Engine Compound and Drillers Console, Master
skidded.
- 2.2.4 Engines : Powered by 2 x Skid/Floor Mounted Caterpillar Model
3406-TA air start diesel engines, F-11524-TC1 Twin
Disc Torque Converters with Airflex 16-CB-500
Clutches. Motor Rating: 275 Hp at 1,800 rpm each.
(Engine s/n 90U14147 and 90U14162).
- 2.2.5 Brake : Parmac 22" Single Rotor Hydromatic Brake
- 2.2.6 Rig Capacity : Drilling Depth 2,100mtr with 4-1/2" Drill Pipe
- 2.2.7 Substructure : Box type, (G.L. to K.B. 14.00ft,) 11' High (below
rotary) x 18' Wide x 40 Foot Long, fitted with all
necessary and Certified Cross Braces and Rotary
support beams.
8' load skids for one piece rig moving.
Mudline manifold (4"), 36" folding walkways,
stairways, hand rails and Drillers House (Dog house).
- 2.2.8 Derrick : Al Hicks Model AH-100. Ground Height 100', Pen
Type Cantilever Mast, 14 feet 9-3/4" leg Span.
Maximum static hook load 300,000lb with 8 lines.
Racking capacity for 4-1/2" Drill pipe 6,000ft with
600ft Bottom Hole Assy.
- 2.2.9 Crown Block : Al Hicks Model AHC-300, 5 x 1-1/8" Sheaves
including fast line and dead line sheaves.
- 2.2.10 Crown-O-Matic : Koomey Model-TCB Crown Block Safety Device.
- 2.2.11 Floor Winch : Ingersol Rand HU Series.
- 2.2.12 Travelling Block : Sowa Model S-150-4 , 150 Ton, 4 x 1-1/8" Sheave
Unitised Block and Hook..
- 2.2.13 Rotary Swivel : Tri-Service Machine Model TSM-150 Swivel 150 ton
Rating @ 100 RPM
- 2.2.14 Rotary Table : Oilwell Mdl-175, (17-1/2"), oil bathe, c/w Varco
"MSS" split Master Bushings.

- 2.2.15 Mud Pumps : No. 1
One (1) Tri Service Machine TSM-500 (7-1/2" x 16") Duplex Mud Pump, Api-7, S/N 149, Forged Steel fluid End, Quick Change Cylinder Heads, Oteco 2" SRV, Oteco model 7 pressure gauge, Belt Driven by Caterpillar D-353-E Diesel Engine, Hydril K-10 x 3,000 pulsation dampener, Twin Disc PTO all on an Oilfield Skid. (Engine Serial # 46B09555 Arrangement # 7N3199).
- No. 2
One (1) Continental Emsco DB-550 (550 HP) (7-1/2" x 16") Duplex Mud Pump, Api-8, S/N 262, Oteco 2" SRV, Belt driven By Caterpillar D-353-E Diesel Engine, Continental Emsco 3,000lb Pulsation Dampener, Twin Disc PTO, Oilfield Skid Mounted. (Engine Serial # 46B05099 Arrangement # 8L3921).
- 2.2.16 Standpipe : 4" x 5,000lb Manifold fitted with Demco 4" Gate Valve
One (1) 3-1/2" ID x 55 ft x 4,000/8,000psi Kelly Hose.
- 2.2.17 Mud System : 2 x 300 Barrel Tanks incorporating 80 bbl pill tank and 40 bbl Trip tank.
- 2.2.18 Shale Shakers : Drilling Fluid Equipment Linear motion SCR-01 Single three screen shaker.
- 2.2.19 Agitator : Lightnin 72Q7.5 Mixer c/w 25hp Exp Motor.
- 2.2.20 Degasser : Demco Model 122.2 x 12" Cones with 6 x 8 Centrifugal Pump driven by 50 HP Electric Motor.
- 2.2.21 Desilter : Harrisburg Model 600-12 (600 GPM) 12 x 4" Cone Assembly, with Mission 6 x 8 centrifugal pump driven by a 50 HP electric motor.
- 2.2.22 Desander : Demco Model 122.2 x 12" Cones with 6 x 8 Centrifugal Pump driven by 50 HP Electric Motor.
- 2.2.23 Mud Mixing : Demco Style Hopper charged by 6 x 8 centrifugal pump driven by a 50 Hp electric motor.
- 2.2.24 BOP's : Ram BOP:
One (1) Shaffer Double Gate 13 5/8" x 3000 Type "B" complete with CSO, 2-3/8", 2-7/8", 3-1/2", 4-1/2" and 7" Ram assembly
- 2.2.25 Accumulator : Ross Hill G-180-E-20-2-AG (8 station) 180 gallon Accumulator with 1 x Triplex pump c/w 20hp 60HZ Electric motor fitted with 2 only Haskel GW35 56:1 ratio backup Air Pumps c/w remote skid mounted Drillers.
- 2.2.26 Choke Manifold : One (1) Cameron Skid Mounted Choke Manifold consisting of:
7 x 2-1/16" x 3,000 Cameron Gate Valves

- 2 x CPI 2-1/16" x 5,000 Adjustable Chokes.
1 x 2-1/16" x 3 M x 5M Tees/Crossovers and manifolding.
- 2.2.27 Kill Line : Kill Line
2 x 3-1/8" x 3,000 Cameron manual valves
Continental Emsco XHP series 2" 15,000 WP swivel lines.
- 2.2.28 Instrumentation : Martin Decker 7 Pen Record-O-Graph
Martin Decker "Clipper" Weight Type Indicator
Martin Decker GM-6 Series Mud pressure System
Martin Decker Pump Stroke Indicators
Totco TS Rotary Tong Torque System
- 2.2.29 Mud Monitoring : AOI-300 Series Flow Indicator System
AOI Digital Read Out Stroke Counter
AOI-1000 Series Pneumatic Mud Monitoring System
- 2.2.30 Survey Unit : Totco Operating Unit No. 6 (P/N ABA8AT5N9)
Double recorder 0-8 degree. Go-devil series
1-5/8" OD x 1-1/4" ID.
- 2.2.31 Automatic Driller : Martin Decker "Satellite" Apollo Auto Driller
Model: SA-100-50-1500.
- 2.2.32 Pipe Spinner : Varco SSW10 Pneumatic
- 2.2.33 Kelly Spinner : Foster Model 77 Pneumatic
- 2.2.34 Kelly : 1 x 4 1/4" Square x 40 ft Kelly with 6-5/8" Regular LH
Box up and 4" FH Pin Down.
- Upper Kelly Valve
M&M Upper Kelly Cock 6-5/8" Regular LH Pin/Box
Connection 10,000psi test.
- Lower Kelly Valve
M and M. 4-1/4" x 10,000 (4"IF Pin/Box) Canister type
Lower Kelly Cock
- 2.2.35 Kelly Drive Bushing : Varco 4-1/4" HDS
- 2.2.36 AC Generators : One (1) Caterpillar SR4 alternator Powered by Cat-
3406PC 256 KVA Serial # 90U9591
Arrangement # 6N459
- One (1) Caterpillar Model: SR-4 (112 KVA) Generator
Serial # 5CA02364 Powered by Cat-3304 Diesel engine
Serial # 4B23410
- One (1) Kubota 5KVA Portable Generator
Serial # RK125-2X

- 2.2.37 Air Compressors : One (1) Elgi model 5515 Compound Compressor
One (1) Ingersol Rand Series 3000 Compressor Serial # 0007384 Powered by Siemens 25HP 60HZ electric motor
- 2.2.38 Drill Pipe/Collars : One (1) John Wood Co 200psi air receiver
Drill pipe
200 joints 4-1/2" Grade 'S' 16.6 lbs/ft Range 2 with 4"IF pin/box connections
Heavy-Weight Drill pipe
6 joints - 4-1/2" OD with 4" IF connections.
Drill Collars
3 each 8" OD Spiral x 2-13/16 x 30 ft
1 each 8" OD Spiral (6 ft) Pup Joint.
26 each 6 1/4" OD Spiral and Slick x 2-13/16"ID x 30 ft Slip recess only, with 4"IF pin/Box connections
- 2.2.39 Communications : 1 x S-3000 Satellite Telephone (Optus) with fax
1 x Digital Mobile phone for camp
1 x Mobile CDMA network Hand held

2.3 Drilling and Completion Data

2.3.1 Drilling Data Summary

The following is the daily operations summary for Kewarra-1. It has been compiled from the tour sheets and daily drilling reports (Appendix 1). R. Brown and G. Mogg provided onsite drilling supervision for Beach Petroleum Ltd. A final time-depth curve is provided in Figure 3. The drilling bit record is included in Appendix 3.

The depths in the following summary are those reached at 2400 hours on each day with the operations given for the previous 24 hour period.

Date	Depth metres	Operation
28.03.07	116.0 m	Spud well and drill from 11m - 34m. Circulate clean and perform Totco survey. At 21m. 0.5 deg. Drill 12.25" surface hole from 33m - 116m. Attempt to repair wash pipe..
29.03.07	511.0 m	Contiue to attempt to repair wash pipe. POH drill string. Continue to repair wash pipe, broken Geolograph cable, and piston in mudpump. RIH to 105m. Wash to 116m. Continue to drill 12-1/4" hole from 116m - 201m. Circulate clean and perform Totco survey at 189m 0.5 deg. Continue to drill 12-1/4" hole from 201m - 350m. Circulate clean and perform Totco survey at 339m, 0.25 deg. Continue to drill 12-1/4" hole from 350m - 490m. Circulate clean and perform Totco survey at 479m. Continue to drill 12-1/4" hole from 490m - 511m.

- 30.03.07 581.0 m Continue to drill 12-1/4" hole from 511m - 531m. Wash pipe blew out start to trip out of hole and change out wash pipe. Wash pipe changed out and tested, RIH and wash to bottom. Continue to drill 12-1/4" hole from 531m - 581m. Circulate clean, perform Totco survey at 575m 1/2 deg. POH for wiper trip work any tight sections. Lost 70 bbls of mud to hole. RIH to TD at 581m no fill. Circulate clean and lighten mud up to 9.1 ppg. POH to run surface csg.
Rig up to run casing.
- 31.03.07 581.0 m Hold pre-job safety meeting and RIH 9-5/8" csg break circ half way in and again on jt 42. RIH last 5 jts of 9-5/8" csg. P/U landing jt and M/U. Circulate well while waiting on Howco. Rig in Howco. Hold pre-job safety meeting and pump surface casing cement, 100% returns. Perform top up job pump 8 bbls of cement and mix. WOC.
- 01.04.07 581.0 m WOC tested samples at 03:00 and still soft. Slack off on csg and unscrew landing jt. and lay out. Rig out pipe rack and v-door, install A section and torque up. Nipple up BOP's. Function test rams. P/T BOP's and choke manifold to 200 psi low and 2,000 psi high, Hydril to 200 psi low and 1000 psi high all O/K. Lay out test jt. Strap and caliper B/sub, Stab., and pony DC.
- 02.04.07 862.0 m Cont. to handle new BHA. Install wear bushing. Slip and cut drilling line. M/U new bit and BHA and RIH to 549m. Circulate to bottom and tag float at 565m. Drill out float and shoe and 3m of new hole. Perform LOT to 500 psi = 3.7 ppg MACP. Drill 8-1/2" hole from 584m - 691m, 130 rpm, 10 - 15K on bit, 450 gpm. Circulate clean survey at 679m, 1deg. Drill 8-1/2" hole from 691m - 834m. Circulate clean survey at 822m, miss run. Drill 8-1/2" hole from 834m - 844m. Circulate clean survey at 832m, miss run, have pusher look at survey barrel and fix. Drill 8-1/2" hole from 844m - 862m, avg on bottom, ROP = 29.27m/h.
- 03.04.07 1146.0 m Drill 8-1/2" hole from 862m - 938m. Circulate clean and run Totco survey, 0.5 deg at 926m. Have trouble with W/L unit stalling coming out of hole. Continue to drill 8-1/2" hole from 938m - 947m. Rig service. Drill 8-1/2" hole from 947m - 1079m, 125rpm, 18 - 20K on bit, 55 spm. Run Totco survey at 1068m, 1-1/8 deg. Drill 8-1/2" hole from 1079m - 1117m. Rig repair lost air pressure. Drill 8-1/2" hole from 1117m - 1146m. Avg 24hr ROP = 17.21m/h.
- 04.04.07 1315.0 m Drill 8-1/2" hole from 1146m - 1231m. Circulate and survey at 1219m 1-1/2Deg. Drill from 1231m to 1239m. Circulate sample, Murta Formation. Drill from 1239m to 1286m. Circulate hole clean prior to changing out washpipe. Tighten quill on kelly and change out washpipe. Drill from 1286m to 1315m, Namur formation. Quill on swivel washed out. Circulate and clean hole. Pump hevi-wt pill and flow check. POOH to 568m, inside casing shoe. Pick up kelly and break out quill connection, rack back.
- 05.04.07 1409.0 m POOH to surface, gauge stabilizer and bit. RIH with bottomhole assembly. Pick up swivel and break out kelly hose and lay out swivel. Wait on swivel. Pick up replacement 150 Ton swivel and make up kellyhose and test run. Okay. RIH to 1299m with good hole conditions. Wash 16m to bottom to 1315m. Drill ahead to 1379m, Gpm 340, WOB 20k, RPM 80/100 Run wireline survey at 1370m, 1-1/2Degs. Drill ahead from 1379m to 1409m, GPM 340, WOB 20k, RPM 80/100.

- 06.04.07 1492.0 m Drill from 1409m to 1474m, GPM 340, WOB 25k, RPM 80/90. Circulate sample, Hutton Formation, top @ 1465m, 3m low. Drill ahead from 1474m to 1485m, GPM 340, WOB 25k, RPM 80, high torque. Circulate and clean hole prior to POOH to change bit. Flow check. Pump hevi-wt pill. Rack Kelly. POOH with good hole conditions. Lay down stabilizer, 3/16" undergauge Make up No-3 bit rerun and RIH to 567m. Slip 30ft and cut 30ft drilling line, broke 2 line cutters. RIH to 1464m. Break circulation at 1000m. Wash to 1485m. Drill from 1485m to 1492m, GPM 340, WOB 25k, RPM 80.
- 07.04.07 1586.0 m Drill from 1492m to 1527m, GPM 340, WOB 25, RPM 80. Circulate sample, Patchawarra Formation, top @ 1521m 3m low. Drill ahead from 1527m to 1586m, GPM 340, WOB 25k, RPM 80. Circulate and clean hole prior to POOH for wiper trip. POOH to 1453m no hole problems, RIH to 1574m. Wash 12m to bottom. Circulate and clean hole. Spot Hi-Vis on bottom. Pump Hevi-wt pill. Drop survey, POOH for DST-1. Lay down 1x6-1/4"Dc, jars and pony Dc. Prepare test tools, clean floor, hold JSA and safety meeting with testers. Make up test tools to test interval 1520m to 1536m.
- 08.04.07 1586.0 m Make up test tools with dual packers. RIH with test tool for DST-1 to test interval 1520m to 1536m = 16m, Patchawarra formation. No hole problems. Rig up test head and surface lines, Pressure test lines. Replace 2" ball valve on choke side of flareline. Hold PJSM. Set pkrs with tool open for 2 minute preflow and 20 minute shut-in. Reopen tool for 2hrs on second flow with no fluid or gas to surface. Close tool for 4hrs. Monitor well. Pull free at 14.36hrs with 15k overpull. Drop bar and reverse circulate. Recoverd 6bbls rathole mud and 59bbls formation water. POOH with test tool and hole taken the correct volume of mud. Lay down test tools with water only in sample chamber. Clean drill floor.
- 09.04.07 1630.0 m RIH with rerun 417 bit to drill ahead. Wash 70m to bottom 1516m to 1586m. Gas cut mud. Work on junk in hole. Work kelly and jar up 10mtrs. Lost 200psi at 50spm, 340gpm. Drill ahead from 1586m to 1592m, SPM 60=Gpm 406, RPM 80, WOB 25k. Increased SPM from 50 top 60. Make connection and tag bottom and work on junk, GPM 406. Drill ahead from 1592m to 1630m, GPM 406, RPM 80, WOB 25k. Basement top @ 1594m - 27m low to prog. Drill 36m. Circulate bottoms up, GPM 406. Flow check. Pump hevi-wt pill. Rack kelly, drop Totco survey. POOH to run wireline logs. Good hole condition. Rig up Schlumberger wireline and hold PJSM. Make up combination tool and RIH. Logger's depth 1631m.
- 10.04.07 1630.0 m Run No-1 HALS-BHC-DEN-CAL-NEUT-SP-GR. Lay down combination tools. Wait on orders. Load sidewall coring gun, 30 shot. RIH and shot cores as per program. Lay down sidewall coring gun. Fired 30 shots recovered 30 cores. Rig down Schlumberger wireline. Make up rerun bit and bit sub and RIH to shoe. Slip 30ft and cut 30ft drilling line. RIH to 771m then received orders to shoot more cores. POOH for Schlumberger. Load sidewall coring gun, 16 shot. Rig up Schlumberger wireline and hold PJSM. RIH and shot cores as per program.

- 11.04.07 1630.0 m Log up and shoot 16 sidewall cores. POOH and recovered 13 cores. RIH to 700m for wiper trip. Orders to P&A. POOH to top of BHA. Lay down Hwd/p, Dcs, bit sub and bit. Lay down Schlumberger wireline sheaves and clean floor. Service rig. Pick up 1 joint of drill pipe and make up combination tool and retrieve wearbushing. RIH ppen-ended drill pipe to 1412m. Pick up 20 singles drill pipe and RIH to 1613m. Circulate and condition hole prior to running cement plugs. Circulate and rig up Halliburton surface lines. Hold PJSM. Run plug No-1 from 1613m-1578m with 42Sacks "G"+ 0.30%Cfr-3 + 0.10%Hr-5 @ 15.8ppg. Pull back to 1538m and circulate. Run plug No-2 from 1538m-1419m with 144Sacks "G"+ 0.30%Cfr-3 + 0.10%Hr-5 @ 15.8ppg. Pull back to 1284m and circulate. Run plug No-3 from 1284m-1234m with 62sacks "G" + 0.30%Cfr-3 + 0.10% Hr-5 @ 15.8ppg. Pull back to 1187m and circulate. Run plug No-4 from 1187m-1070m with 162sacks "G"+ 0.30%Cfr-3 @ 15.8ppg. Pull 7 stands drill pipe and circulate.
- 12.04.07 1630.0 m Pull back and Run Plug No-5 from 988-938m with 71sacks"G"+0.20%Cfr-3 @ 15.8ppg. Pull 5 stands and circulate. Pull back and Run Plug No-6 from 603-553m with 74sacks "G"+0.30%Cfr-3 @ 15.8ppg. Pull 5 stands and circulate. Lay down excess drill pipe. RIH and tag shoe plug at 551m with 10k weight, 2m above programmed depth. Pressure test to 500psi and hold for 5minutes, okay. Lay down 2 singles and pick up kelly and break circulation. Break out connections on kelly, rack kelly. Lay down remaining drill pipe. Lay out mousehole. ND flow nipple. Choke line, koomey line and kill line. Dump and clean mud tanks. ND Bops and lay out same. Pick up kelly and back out bradenhead. 15 Sack cement top-up on 9-5/8" casing. Lay out kelly and complete cleaning out mud tanks. Release rig. Commence rigging down drill floor.

Rig released 12th April, 2007 @ 22:00 hours.

Kewarra-1 Time Depth Chart

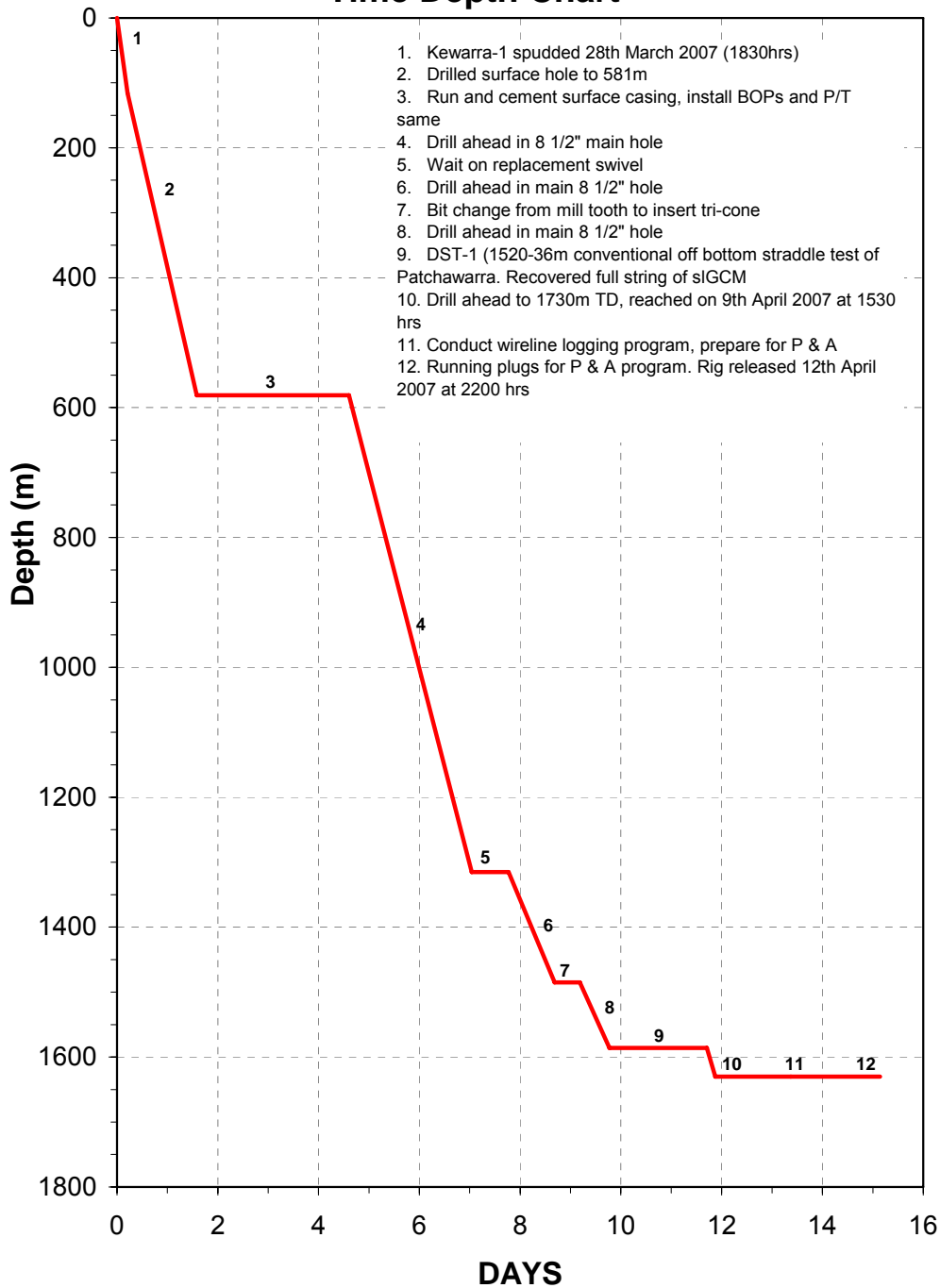


Figure 3: Drilling Time/Depth Curve

2.3.2 Hole Sizes and Depths

12.25" / 311mm to 581.0m
 8.5" / 216mm to 1630.0m (Total Depth – Drillers)

2.3.3 Casing and Cementing

Casing and cementing reports are available in Appendix 8.

2.3.4 Deviation Surveys (Totco)

Depth (m)	Inclination (deg)	Depth (m)	Inclination (deg)
21	0.38	679	1.00
189	0.50	926	0.50
339	0.25	1119	1.50
490	0.50	1370	0.50
575	0.50	1620	1.50

2.3.5 Drilling Fluid, Physical Mud Properties, Chemicals Used

RMN Drilling Fluids provided the drilling mud for Kewarra-1 and a full report is provided in Appendix 4.

2.3.6 Bit Record

The bit record for Kewarra-1 is included in Appendix 3.

2.3.7 Water Supply

Drilling water for the well was supplied from local water bore.

2.4 Logging and Testing

2.4.1 Wellsite Geologist

Doug Short provided the onsite geological supervision for Beach Petroleum Ltd. Daily geological reports are contained in Appendix-2.

2.4.2 Mudlogging

Geoservices Overseas S.A provided Mudlogging services. Cuttings gas was monitored from surface conductor shoe to total depth using a FID gas chromatograph. A mudlog recording lithology, penetration rate, mud gas and other data was prepared and is an enclosure (2) to this report.

2.4.3 Ditch Cutting Samples

Cuttings were collected and described from spud to TD. The sampling intervals were 10m from spud to 1070m, and 3m from 1070m to 1630m TD. The cuttings samples and sets were:

<u>Sample Type</u>	<u>No.Sets</u>
Washed & Dried	2
Samplex Trays	1

The cuttings descriptions are provided in Appendix 5.

2.4.4 Coring

None taken.

2.4.5 Sidewall Cores

Two separate percussion sidewall core runs were made. The first run of thirty bullets recovered 30 cores from 30 fired. The second recovered 13 cores from 16 fired.

Sidewall core descriptions are contained in Appendix 13.

2.4.6 Testing

DST No: 1 (Conventional Straddle Test)
 Formation: Patchawarra Formation
 Interval: 1519.53 – 1536.09m.
 Result: Preflow: Moderate bubbles at bottom of bucket.
 Second Flow: Moderate bubbles at bottom of bucket decreasing to moderate at 8" in bucket after closing ½" choke.
 Recovery: No fluid to surface, 3bbl of rat hole drilling mud and 59 bbl of formation water recovered from drill pipe. Formation water recovered from the sample chamber.

A full DST report is contained in Appendix-10.

2.4.7 Wireline Logs

One suite of three separate runs of logs was acquired by Schlumberger

<u>Run No.</u>	<u>Type Log</u>	<u>Interval</u>
1	PEX-BHC-HALS-GR (GR to surface)	1382.65 – 582.4m (1010 – 1170m very high resolution)
2	CST-GR	30 shots attempted, 30 bullets fired, 30 cores recovered.
3	CST-GR	16 shots attempted, 13 bullets fired, 13 cores recovered.

2.4.8 Temperature Surveys

The following maximum temperature was recorded from wireline logs and drill stem testing:

HALS-BHC-HCAL-GR	95.6°C @ 1628.91m, 8.75 hrs after circulation.
DST 1	104.4°C @ 1536m

2.4.9 Velocity Survey

Not conducted.

3 GEOLOGY

3.1 Reasons for Drilling

Kewarra-1 was proposed as a wildcat well to test the oil potential of the Jurassic and Permian interval within a simple four way dip anticlinal structure located on the southern flank of the Cooper Basin, approximately 110 km southeast of Moomba.

The primary reservoir objectives in Kewarra-1 were the Middle Jurassic Hutton Sandstone with strong secondary potential in the Permian Patchawarra Formation.

3.2 Stratigraphic Prognosis

The stratigraphic prognosis for Kewarra-1 was made utilising the results of surrounding wells and interpretation and seismic data. The well penetrated an expected stratigraphic section comprising approximately 1626 metres of surficial, Cooper and Eromanga Basin sediments, and terminated in Pre-Permian Dullingari basement.

AGE	FORMATION	Depth (mRT)	DEPTH (mSS)	Thick (m)
L. Tertiary- Recent	Surficial & Winton Fm	3.8	0.0	530.0
E. Cretaceous	Mackunda Formation	538.8	423.1	82.1
E. Cretaceous	Oodnadatta Formation	620.9	505.1	342.1
E. Cretaceous	Coorikiana Sandstone	963.0	847.3	7.0
E. Cretaceous	Bulldog Shale	970.0	854.3	125.0
E. Cretaceous	Cadna-owie Formation	1095.0	979.3	66.9
E. Cretaceous	Murta Member	1161.9	1046.2	68.4
E. Cretaceous	Namur Sandstone	1230.3	1114.6	213.6
M. Jurassic	Birkhead Formation	1443.9	1328.1	22.3
M. Jurassic	Hutton Sandstone	1466.2	1350.5	32.8
E. Jurassic	Poolowanna Formation	1499.0	1383.2	4.3
E. Permian	Murteree Shale	1503.3	1387.5	15.1
E. Permian	Patchawarra Formation	1518.4	1402.7	69.1
Pre Permian	Dullingari Group	1587.6	1471.8	42.7+
	TD	1630.0	1514.3	

Table 1: Kewarra-1 Stratigraphy

3.3 Stratigraphy

The stratigraphic section encountered in Kewarra-1 is summarised below and tops are tabulated in Table 1. The detailed lithological description of the section encountered is presented in Appendix 2 (Daily Geological Reports), Appendix 5 (Cuttings descriptions) and Appendix 13 (Sidewall Core Descriptions). A palynological age dating report is contained in Appendix-12. For reference, a generalised Cooper/Eromanga stratigraphic column is provided as Figure 4.

**All depths reported in this well completion report are measured depth relative to the rotary table (MDRT) unless otherwise stated

SURFICIAL DEPOSITS / WINTON FORMATION

3.8 – 538.8 m

Thickness : 530.0 m

Not described – descriptions from near base Mackunda Formation down.

MACKUNDA FORMATION

538.8 – 620.9 m

Thickness : 82.1 m

Not described from 538.8 to 590.0 m

Massive SILTSTONE from 590.0 to 620.0 m, moderate to dark grey, soft to firm, very argillaceous and grades to claystone, minor brown, hard, silty, calcareous stringers, rare carbonaceous specks and mica flakes.

ODNADATTA FORMATION

620.9 – 963.0 m

Thickness : 342.1 m

Massive SILTSTONE from 620.9 to 875.0 m: moderate to dark grey, soft to firm, very argillaceous and grades to claystone, minor brown, hard, silty, calcareous stringers, rare carbonaceous specks and mica flakes.

SILTSTONE with Trace SANDSTONE and LIMESTONE from 875.0 to 915.0 m

SILTSTONE, light to moderate grey, moderate grey-brown, soft, very argillaceous, calcareous in part with calcite / fossil shell fragments, rare carbonaceous specks and mica flakes.

SANDSTONE, white to pale grey, very fine, sub-angular to sub-rounded, moderate sorted, lithic, glauconitic, feldspathic, moderate to abundant silty clay matrix, moderate to strongly calcareous, friable to moderately hard, very poor porosity.

LIMESTONE, pale brown, hard, silty, minor fossil shell fragments.

Massive SILTSTONE from 915.0 to 963.0 m, moderate to dark grey to grey-brown, soft to firm, argillaceous, rare limestone / fossil shell fragments, rare silty glauconitic sandstone lenses, trace pyrite.

COORKIANA SANSTONE

963.0 – 970.0 m

Thickness : 7.0 m

SANDSTONE, white to pale grey, very fine, sub-rounded, moderate to well sorted, lithic, glauconitic, feldspathic, trace mica, silty clay matrix, moderate calcite cement, friable to moderately hard, very poor porosity.

BULLDOG SHALE

970.0 – 1095.0 m

Thickness : 125.0 m

SILTSTONE with interbedded silty SANDSTONE from 970.0 to 995.0 m.

SILTSTONE, moderate to dark grey to grey-brown, soft to firm, argillaceous, rare limestone / fossil shell fragments, rare silty glauconitic sandstone lenses, trace pyrite.

SANDSTONE, white to pale grey, very fine, sub-rounded, moderate to well sorted, lithic, glauconitic, feldspathic, trace mica, silty clay matrix, moderate calcite cement, friable to moderately hard, very poor porosity.

Massive SILTSTONE from 995.0 to 1095.0 m, dark grey to grey-brown, soft to firm, argillaceous, rare glauconitic sandstone lenses, trace light brown silty limestone.

CADNA-OWIE FORMATION

1095.0 – 1161.9.0 m

Thickness : 66.9 m

SANDSTONE with interbedded SILTSTONE from 1095.0 to 1141.0 m.

SANDSTONE, white to off white, very fine to fine, occasionally medium and coarse, sub-rounded, moderate sorted, minor lithics, feldspar and carbonaceous material, trace mica flakes, moderate dispersive clay matrix, moderate to strongly calcareous, friable to moderately hard, poor porosity.

SILTSTONE, light brown, firm, sub-fissile, micro-micaceous, carbonaceous specks; also dark brown to grey-brown, argillaceous and grades to claystone.

SILTSTONE with trace LIMESTONE from 1141.0 to 1161.9 m.

SILTSTONE, light brown, light grey, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks, grades to very fine sandstone in part.

LIMESTONE, white to pale yellowish white, cryptocrystalline.

MURTA MEMBER

1161.9 – 1230.3 m

Thickness: 68.4 m

Interbedded SANDSTONE and SILTSTONE from 1161.9 to 1205.0 m

SANDSTONE, white, very fine, minor fm, sub-rounded, moderate sorted, rare mica flakes and lithics, moderate clay matrix, calcareous in part, weak silica cement, poor to fair with minor good porosity.

SILTSTONE, light to dark grey, grey-brown, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks.

SILTSTONE with interbedded SANDSTONE from 1205.0 to 1230.3 m.

SILTSTONE, light to moderate grey, light to moderate brown, grey-brown, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks, trace silty limestone laminae.

SANDSTONE, white, very fine, occasional medium to coarse, sub-angular to sub-rounded, moderate sorted, trace mica flakes and lithics, moderate clay matrix, calcareous in part, moderate silica cement, friable to moderately hard, poor to fair porosity.

NAMUR SANDSTONE

1230.3 – 1443.9 m

Thickness: 213.6 m

SANDSTONE, clear to translucent, predominantly medium to coarse, sub-rounded, moderate to well sorted, trace quartz overgrowths / crystal faces, trace mica flakes, loose, good porosity.

BIRKHEAD FORMATION

1443.9 – 1466.2 m

Thickness: 22.3 m

SANDSTONE from 1443.9 to 1456.0 m, white, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, weak to moderate silica cement, friable to moderately hard, poor to fair with occasional good porosity.

SILTSTONE with minor SANDSTONE and rare CLAYSTONE and COAL from 1456.0 to 1466.2.0 m.

SILTSTONE, light to moderate brown, moderate to dark grey-brown, soft to firm, argillaceous, dispersive, carbonaceous specks, occasionally grades to very fine argillaceous sandstone. SILTSTONE, moderate to dark brown to reddish brown, soft to firm, very argillaceous and grades to claystone, minor carbonaceous / coal material.

SANDSTONE, translucent white, predominantly very fine to fine, some medium to coarse, sub-rounded, poor to moderate sorted, silty, moderate to abundant dispersive clay matrix, weak silica cement, friable to moderately hard, poor porosity.

CLAYSTONE, white, soft, occasionally sandy with very fine quartz grains.

COAL, very dark brown to black, dull to sub-vitreous lustre

HUTTON SANDSTONE

1466.2 – 1499.0 m

Thickness: 32.8 m

SANDSTONE, translucent, fine to coarse, angular to sub-angular, moderate sorted, loose quartz grains, trace quartz overgrowths / crystal faces. good porosity.

POOLOWANNA FORMATION

1499.0 – 1503.3 m

Thickness: 4.3 m

SILTSTONE with interbedded SANDSTONE.

SILTSTONE, moderate to dark grey to grey-brown, firm, sub-fissile, abundant carbonaceous material and micro-laminae.

SANDSTONE, translucent to white, very fine to fine, sub-angular to sub-rounded, moderate sorted, trace carbonaceous specks and mica flakes, trace quartz overgrowths

/ crystal faces, minor to moderate clay matrix, weak silica cement, friable, fair to good porosity.

MUTERREE SHALE

1503.3 – 1518.4 m

Thickness: 15.1 m

SILTSTONE, very dark grey/grey-brown to black, firm to moderately hard, sub-fissile to sub-blocky, abundant very fine dispersive carbonaceous material.

PATCHAWARRA FORMATION

1518.4 – 1587.6 m

Thickness: 69.1 m

Interbedded SANDSTONE and SILTSTONE from 1518.4 to 1530.0 m.

SANDSTONE, white to off white, very fine to fine, trace medium to very coarse, sub-angular to sub-rounded, moderate sorted, trace quartz overgrowths / crystal faces, minor to abundant clay matrix, weak silica cement, friable, poor to good porosity.

SILTSTONE, moderate to dark grey, grey-black, firm, sub-fissile, argillaceous, carbonaceous.

Interbedded COAL and SILTSTONE from 1530.0 to 1532.0 m.

COAL, black, dull to sub-vitreous lustre, striated and minor fractures with gas bleeding.

SILTSTONE, moderate to dark grey, grey-black, firm, sub-fissile, argillaceous, carbonaceous.

Interbedded SANDSTONE and SILTSTONE from 1532.0 to 1560.0 m.

SANDSTONE, translucent white to very pale translucent brown, fine to coarse, sub-angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, fair to good porosity.

SILTSTONE, light to moderate grey, dark grey, firm, argillaceous, very carbonaceous with common carbonaceous laminae, minor mica flakes.

SANDSTONE with occasional SILTSTONE and rare COAL from 1560.0 to 1567.0m.

SANDSTONE, translucent, medium to very coarse, angular, moderate sorted, loose quartz grains, occasional quartz overgrowths / crystal faces, good porosity.

SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous.

COAL, black, dull to sub-vitreous lustre.

SILTSTONE with SANDSTONE interbeds from 1567.0 to 1577.0 m.

SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous.

SANDSTONE, pale translucent brown, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, moderate silica cement, moderately hard, poor to fair porosity.

SANDSTONE with interbedded SILTSTONE and rare COAL from 1577.0 to 1587.6 m..

SANDSTONE, translucent, fine to very coarse, angular to sub-angular, poorly sorted, predominantly loose quartz grains, minor dispersive clay matrix, good porosity.

SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, very carbonaceous and grades to coal in part.

COAL, black, dull to sub-vitreous lustre, grades to very carbonaceous shale.

DULLINGARI GROUP

1587.6 – 1630.0 m

Thickness: 42.4 m +

SANDSTONE from 1587.6 to 1629.0 m, white with some pale pinkish brown, very fine to fine, angular to sub-rounded, moderate to well sorted, trace pyrite, abundant white dispersive clay matrix, weak to moderate and occasional strong silica cement, friable to moderately hard and hard where well cemented, poor porosity.

SILTSTONE from 1629.0 to 1630.0 m, low grade metamorphosed pale bluish grey, hard, angular fracture, siliceous.

TOTAL DEPTH

Driller: 1630.0 mRT

Logger: 1631.2 mRT

3.4 Hydrocarbon Shows

Total gas was recorded and analyzed from surface to T.D. All ditch cuttings were checked for hydrocarbon fluorescence.

Cadna-owie Formation

1110.0 - 1119.0 m: Trace dull yellow fluorescence, no cut.

1086.0 - 1110.0 m: Trace as above.

Total gas up to 21 units / 7 units background (91:5:3:1)

Murta Member

1182.0 - 1206.0 m: Trace to 10% moderately bright bluish white fluorescence, slow cut with thin white residue ring.

Total gas up to 17 units / 4 units background (93:5:2)

Birkhead Formation

1455.0 - 1464.0 m: 100% to trace moderate bright to bright yellow-white fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.

1464.0 - 1465.0 m: 60% very dull to minor moderate bright fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.

Total gas up to 34 units / 6 units background (65:12:9:10:4)

1465.0 – 1468.0m: No visible fluorescence, total gas up to 67 units / 6 units background (57:13:10:12:8)

Patchawarra Formation

1521.0 - 1539.0 m: 100 to 5% dull to moderately bright yellow-white fluorescence, instant blooming cut, moderate to thick yellow-white residue ring.

Total gas up to 103 units / 10 units background (68:16:9:6:2)

1542.0 - 1560.0 m: 40% to trace dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring.

Total gas up to 257 units / 20 units background (82:14:3:1); very high gas from very carbonaceous coaly siltstone

4 CONCLUSIONS

Kewarra-1 was a successful test of the Kewarra structure with poor shows observed in the Cadna-owie and Murta formations and moderate to good shows in the Birkhead and Patchawarra formations.

The well intersected the expected stratigraphic section while targeting the oil potential of the Jurassic and Permian Hutton and Patchawarra formations which were all intersected close to prognosis.

Trace dull yellow fluorescence was described from cutting in the Cadna-owie Formation, while trace to 10% moderately bright bluish white fluorescence with a slow cut and thin white residue ring was described in the Murta Member. In the Birkhead Formation 100% to trace moderate bright to bright yellow-white fluorescence with moderate blooming cut and a moderately bright yellow-white residue ring was described in cuttings from 1455.0 to 1464.0 m, and 60% very dull to minor moderate bright fluorescence with moderate blooming cut and a moderately bright yellow-white residue ring was described from 1464.0 to 1465.0 m. 100% to trace dull to moderately bright yellow-white fluorescence with an instant blooming cut and moderate to thick yellow-white residue ring was described the Patchawarra Formation from 1521.0 to 1560.0 m.

A conventional straddle test (DST 1) was performed in the Patchawarra Formation resulting in recovery of 60 bbls of formation water from the drill string and the down-hole sample chamber.

Kewarra-1 was plugged and abandoned and the rig released on 12th April 2007 at 22:00 hrs.

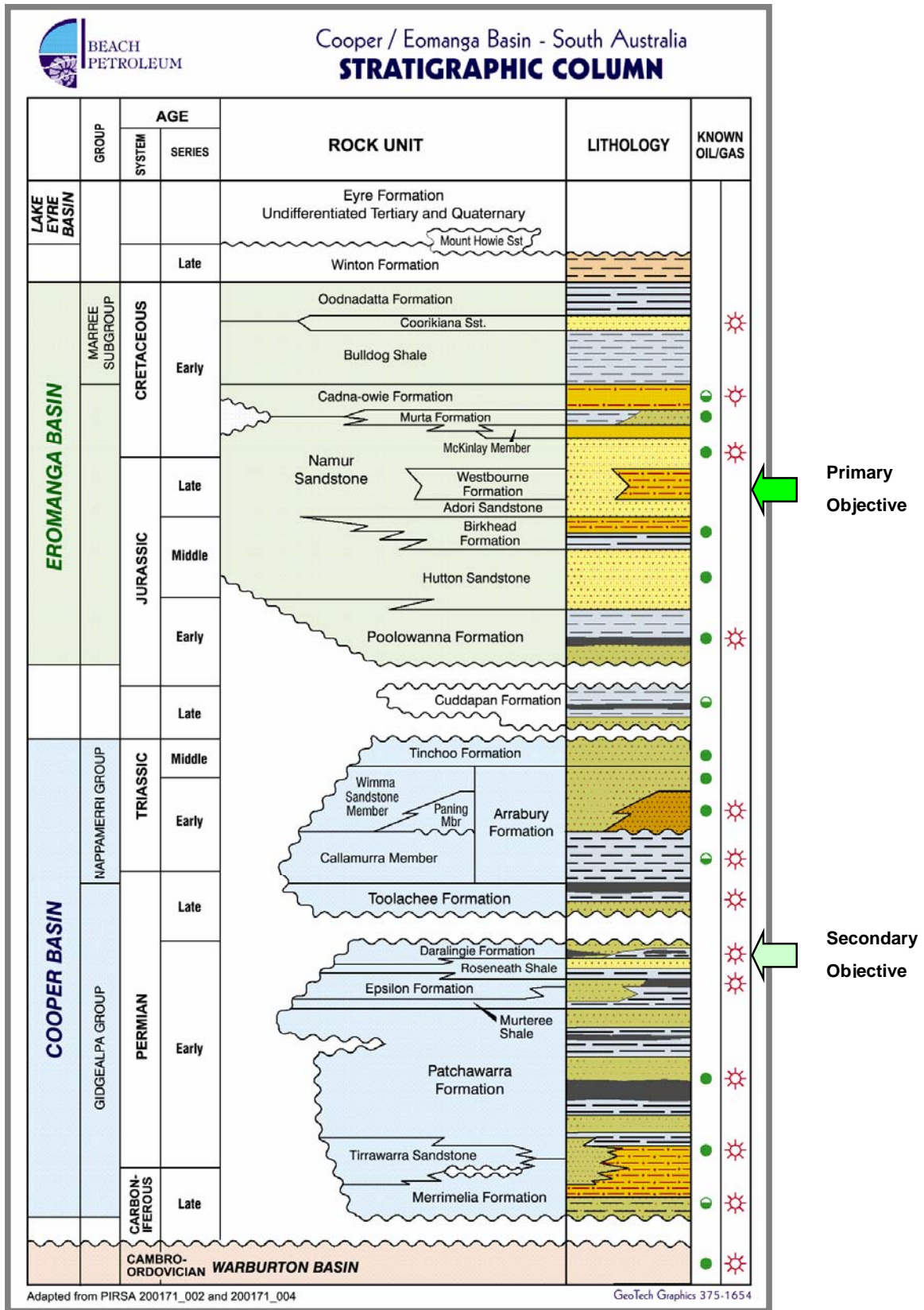


Figure 4: Generalised Cooper/Eromanga Basin Stratigraphic Column



DAILY DRILLING REPORT

29/03/2007

REPORT # 02

WELL	Kewarra- 1	24:00 DEPTH	511m	24 HR PROG	395m	CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Surficial	PTD	1600m	DAILY COSTS	
OP's TO 06:00	Drill 12-1/4" hole, repair wash pipe, continue to drill 12-1/4" hole @ 06: 00 550m.						
REMARKS / FORWARD PLAN:	POH, Repair wash pipe, survey line, and mud pump, RIH, cont. to drill 12-1/4" hole from 116m - 511m: Drill 12-1/4" hole to TD at 581m perform wiper trip, run 9-5/8" csg.					PERSONNEL ON SITE:	30
LAST CASING	9 5/8"	SET AT	577.8m	LOT		MAASP	
						BOP TEST	NIL
AFD's: 26	SAFETY 1. Discuss changing out of wash pipe, and drilling of 12-1/4" hole. 2. Discuss house keeping and handling of 9-5/8" csg.				WEATHER AM		Fine
					PM		Cloudy/ light rain

BIT INFORMATION				BHA # 1		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)	12-20	JET V(fps)	#####	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		
RPM	130	H S I	#####	12.25 Smith	0.30	Depth (m)	511	Cementing		
BIT NUMBER	R4			Bit Sub	0.92	Temp (° C)		Circ & Condition		
Size (in)	2.25			2 x 8" DC's	19.09	Mud Type	Spud	Coring		
Make	Smith			12.25 Stab	1.35	Density (ppg)	9.40	D/O Cement		
Type	XR117			X/O	0.53	ECD (ppg)		Drilling	16.0	20.5
IADC Code	117			15 x 6.25" DC's	139.51	Viscosity (sec)	50	FIT / LOT		
Serial Number	MY0188			Drilling Jars	9.51	PV / YP (cp/lb)	9 / 64	Handle BHA		
T.F.A.(")	0.601			2 x 6.25 DC's	18.75	Gells (s/m)	22 / 24	Repairs	6.5	25.5
Depth In (m)				4 x 4.5 HWDP	36.60	API Filt. (cc)	NC	Rig Service		
Depth Out (m)						Cake (/32")		Rig up Csg./ Cmt.		
Total Meters	511					Solids (% Vol)	5.5	Run Casing		
Hours	11.5					Sand (% Vol)	1	Safety		
ROP	43.2					MBT	16	Slip/Cut Drill Line		
Condition Out				BHA LENGTH (m)	226.56	pH (strip)	8.5	Survey	1.5	2.0
FLOW DATA				BHA WEIGHT(kLb)	56.2	Chlorides (mg/l)	16000	Test BOP		
CIRC. RATE (gpm)	#VALUE!			STRING WT (kLb)	60.4	KCL (%)	3.5	Tight hole / Fishing		
AV - DP (fpm)	#VALUE!			HOOK LOAD (kLb)	62.0	PHPA (ppb)		Tripping		
AV - DC (fpm)	#VALUE!			WT BELOW JARS (kLb)	45.7	ALC - 50 (K)		Wait on Cement		
SPP (psi)	1350			DRAG UP (kLb)	62.0	Circ. Vol. (Bbl)	516	Wash / Ream		
SPP (calculated)				DRAG DOWN (kLb)	61.0	CHEMICAL USAGE		Well Control		
PUMP #1	PUMP #2			TORQUE ON (Amps/Rel.)	110	Ausgel	16	Well Test		
TSM 500	CE DB 550			TORQUE OFF (Amps/Rel.)	80	Barite	150	Wiper Trip		
RATE	44	RATE	44	BULK PRODUCTS		Lime	1	Wireline		
LINER	6.0"	LINER	6.0"	FUEL ON SITE	31250 Litres	KCL	132	Other		
STROKE	16"	STROKE	16"	DAILY USAGE	-31250 Litres			TOTALS	24.0	48.0
				CUM. FUEL USED	2000 Litres			DAILY MUD COSTS		\$4,368.89
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$5,860.49
				BARITES USED	#N/A			AFE COST - C&S		
189m at .5°				MUD MIXED	400 Bbls			AFE COST - P&A		
339m at .25°				MUD LOSSES	50 Bbls			AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	1:00	Continue to attempt to repair wash pipe.
1:00	2:30	POH drill string.
2:30	4:30	Continue to repair wash pipe, broken Geograph cable, and piston in mudpump.
4:30	5:00	RIH to 105M
5:00	6:30	Wash to 116M.
6:30	9:30	Continue to drill 12-1/4" hole from 116m - 201m.
9:30	10:00	Circulate clean and perform Totco survey at 189m .5 deg.
10:00	15:30	Continue to drill 12-1/4" hole from 201m - 350m.
15:30	16:00	Circulate clean and perform Totco survey at 339m, .25 deg
16:00	23:00	Continue to drill 12-1/4" hole from 350m - 490m.
23:00	23:30	Circulate clean and perform Totco survey at 479m
23:30	0:00	Continue to drill 12-1/4" hole form 490m - 511m

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	R. Bown	GEOLOGIST:		MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

30/03/2007

REPORT # 03

WELL	Kewarra- 1	24:00 DEPTH	581m	24 HR PROG	70m	CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Mackunda	PTD	1600m	DAILY COSTS	
OP's TO 06:00		Run 9-5/8" csg @ 06:00 4 jts left to run.					
REMARKS / FORWARD PLAN:	Drill 12-1/4" hole to TD at 581m. Wiper trip to surface, POH to run 9-5/8" csg. : Run surface csg to 578m attempt to get Halliburton into site, cement well.					PERSONNEL ON SITE:	30
LAST CASING	9 5/8"	SET AT	578.3m	LOT		MAASP	
		BOP TEST	NIL	TEST DUE			
AFD's: 27	SAFETY	1. House keeping and slip trips and falls. 2. Tripping of drill pipe pinch and crush points.				WEATHER AM	Fine
						PM	Fine/cool

BIT INFORMATION				BHA # 1		MUD PROPERTIES		OPERATION		HRS	CUM
WOB(kLb)	15-20	JET V(fps)	244	TOOL		LENGTH		Time	20:00		
RPM	130	H S I	1.10					Depth (m)	581		
BIT NUMBER				12.25 Smith		0.30		BOP's / Wellhead			
Size (in)				Bit Sub		0.92		Cementing			
Make				2 x 8" DC's		19.09		Circ & Condition		3.5	3.5
Type				12.25 Stab		1.35		Mud Type		Spud	
IADC Code				X/O		0.53		Density (ppg)		9.10	
Serial Number				15 x 6.25" DC's		139.51		ECD (ppg)		12.60	
T.F.A.(")				Drilling Jars		9.51		Viscosity (sec)		36	
Depth In (m)				2 x 6.25 DC's		18.75		PV / YP (cp/lb)		4 / 24	
Depth Out (m)				4 x 4.5 HWDP		36.60		Gells (s/m)		9 / 10	
Total Meters								API Filt. (cc)		NC	
Hours								Cake (/32")			
ROP								Solids (% Vol)		3.1	
Condition Out				BHA LENGTH (m)		226.56		Sand (% Vol)		0.75	
FLOW DATA				BHA WEIGHT(kLb)		55.6		MBT		16	
CIRC. RATE (gpm)				STRING WT (kLb)		77.5		pH (strip)		8.5	
AV - DP (fpm)				HOOK LOAD (kLb)		68.0		Chlorides (mg/l)		15000	
AV - DC (fpm)				WT BELOW JARS (kLb)		45.1		KCL (%)		3.5	
SPP (psi)				DRAG UP (kLb)		68.0		PHPA (ppb)			
SPP (calculated)				DRAG DOWN (kLb)		68.0		ALC - 50 (K)			
PUMP #1				TORQUE ON (Amps/Rel.)		110		Circ. Vol. (Bbl)		599	
PUMP #2				TORQUE OFF (Amps/Rel.)		60		CHEMICAL USAGE			
TSM 500				BULK PRODUCTS							
CE DB 550				FUEL ON SITE		28300 Litres					
RATE		33		DAILY USAGE		2950 Litres					
LINER		6.0"		CUM. FUEL USED		38200 Litres					
STROKE		16.0"		BARITES ON SITE		#N/A					
SURVEYS		.5° at 575m		BARITES USED		#N/A					
				MUD MIXED		560 Bbbls					
				MUD LOSSES		127 Bbbls					

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	1:00	Continue to drill 12-1/4" hole from 511m - 531m.
1:00	3:00	Wash pipe blew out start to trip out of hole and change out wash pipe.
3:00	5:00	Wash pipe changed out and tested, RIH and wash to bottom.
5:00	8:30	Continue to drill 12-1/4" hole from 531m - 581m.
8:30	9:30	Circulate clean, perform Totco survey at 575m 1/2 deg.
9:30	13:30	POH for wiper trip work any tight sections. Lost 70 bbls of mud to hole.
13:30	16:00	RIH to TD at 581m no fill.
16:00	19:30	Circulate clean and lighten mud up to 9.1 ppg
19:30	22:30	POH to run surface csg.
22:30	0:00	Rig up to run casing.

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	R. Bown		GEOLOGIST:		MUD CO: RMN Drilling Fluids		



DAILY DRILLING REPORT

31/03/2007

REPORT # 04

WELL Kewarra- 1 24:00 DEPTH 581m 24 HR PROG CUM. COSTS
RIG Hunt Energy # 2 FORMATION Mackunda PTD 1600m DAILY COSTS
OP's TO 06:00 WOC, slack off on csg and start to lay out landing jt.
REMARKS / FORWARD PLAN: RIH 47 jt of 9-5/8" csg. Circulate while waiting on Howco, rig in Howco and cement surface
PERSONNEL ON SITE: 31
LAST CASING 9 5/8" SET AT 578.3m LOT MAASP BOP TEST NIL TEST DUE
AFD's: 28 SAFETY 1. Discuss running of 9-5/8" casing. WEATHER AM Fine PM Fine/cool
2. Discuss perform 9-5/8" cement job.

Table with 6 main columns: BIT INFORMATION, TOOL, MUD PROPERTIES, OPERATION, HRS, CUM. Includes sub-sections like FLOW DATA, PUMP, BULK PRODUCTS, SURVEYS, and CHEMICAL USAGE.

HOURLY OPERATIONS SUMMARY 0000 to 2400

Table with 3 columns: From, To, Description. Contains hourly log entries from 0:00 to 22:30.

MAXIMUM GAS: % @ m BACKGROUND GAS: % CONNECTION GAS: % TRIP GAS: %
SUPERVISOR: R. Bown GEOLOGIST: D. Short MUD CO: RMN Drilling Fluids



DAILY DRILLING REPORT

1/04/2007

REPORT # 05

WELL	Kewarra- 1	24:00 DEPTH	581m	24 HR PROG		CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Mackunda	PTD	1600m	DAILY COSTS	
OP's TO 06:00 Handle BHA, slip and cut drilling line, RIH with drill string.							
REMARKS / FORWARD PLAN: WOC, N/U A section and BOP, P/T BOP, handle new BHA.						PERSONNEL ON SITE:	31
LAST CASING	9 5/8"	SET AT	578.3m	LOT		MAASP	
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 29	SAFETY	1. Discuss house keeping. 2. Discuss nipping up of BOP.				WEATHER AM	Fine
					PM	Fine/cool	

BIT INFORMATION				BHA # 2		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)		JET V(fps)		TOOL	LENGTH	Time	24:00	BOP's / Wellhead	12.5	12.5
RPM		H S I		8.5 Security		Depth (m)	581	Cementing		1.5
BIT NUMBER				Bit sub		Temp (° C)		Circ & Condition		13.0
Size (in)				6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make				1 x 6.25 DC		Density (ppg)	8.60	D/O Cement		
Type				8.5 Stab.		ECD (ppg)		Drilling		25.0
IADC Code				14 x 6.25 DC's		Viscosity (sec)	Brine	FIT / LOT		
Serial Number				Drilling Jars	9.51	PV / YP (cp/lb)		Handle BHA	0.5	0.5
T.F.A. (")				2 x 6.25 DC's	18.75	Gells (s/m)		Repairs		29.5
Depth In (m)				4 x 4.5 HWDP	36.60	API Filt. (cc)	NC	Rig Service		
Depth Out (m)						Cake (/32")		Rig up Csg./ Cmt.		5.0
Total Meters						Solids (% Vol)	0.6	Run Casing		8.0
Hours						Sand (% Vol)		Safety		
ROP						MBT		Slip/Cut Drill Line		
Condition Out				BHA LENGTH (m)	64.86	pH (strip)	8.5	Survey		3.0
FLOW DATA				BHA WEIGHT(kLb)	10.7	Chlorides (mg/l)	20000	Test BOP	4.5	4.5
CIRC. RATE (gpm)				STRING WT (kLb)	40.6	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)				HOOK LOAD (kLb)		PHPA (ppb)		Tripping		3.0
AV - DC (fpm)				WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement	5.0	6.5
SPP (psi)				DRAG UP (kLb)		Circ. Vol. (Bbl)	494	Wash / Ream		
SPP (calculated)				DRAG DOWN (kLb)		CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)		KCL	102	Well Test		
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)				Wiper Trip		6.5
RATE		RATE		BULK PRODUCTS				Wireline		
LINER	6.0"	LINER	6.0"	FUEL ON SITE	25800 Litres			Other	1.5	1.5
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1000 Litres			TOTALS	24.0	120.0
				CUM. FUEL USED	40700 Litres			DAILY MUD COSTS		\$2,052.24
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$8,844.38
				BARITES USED	#N/A			APE COST - C&S		
				MUD MIXED	907 Bbbls			APE COST - P&A		
				MUD LOSSES	580 Bbbls			APE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	5:00	WOC tested samples at 03:00 and still soft.
5:00	6:00	Slack off on csg and unscrew landing jt. and lay out.
6:00	9:00	Rig out pipe rack and v-door, install A section and torque up.
9:00	18:30	Nipple up BOP's.
18:30	20:00	Function test rams.
20:00	23:00	P/T BOP's and choke manifold to 200 psi low and 2,000 psi high, Hydril to 200 psi low and 1000 psi high all O/K.
23:00	23:30	Lay out test jt.
23:30	0:00	Strap and calipar B/sub, Stab., and pony DC.

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	R. Bown	GEOLOGIST:	D. Short	MUD CO: RMN Drilling Fluids			



DAILY DRILLING REPORT

2/04/2007

REPORT # 06

WELL	Kewarra- 1	24:00 DEPTH	862m	24 HR PROG	281m	CUM. COSTS						
RIG	Hunt Energy # 2	FORMATION	Oodnadatta	PTD	1600m	DAILY COSTS						
OP's TO 06:00	Continue to drill 8-1/2" hole from 862m - 938m @ 06:00 Perform totco survey.											
REMARKS / FORWARD PLAN:	RIH w/- new drill string, D/O float and shoe, perform LOT, Drill 8-1/2" hole from 581m - 862m w/- survey, avg ROP 29.27m/h: Cont. to drill ahead to test zones.					PERSONNEL ON SITE:	32					
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	490psi	BOP TEST	1/04/2007	TEST DUE	15/04	
AFD's: 30	SAFETY	1. Discuss slipping and cutting of drilling line pinch and crush points. 2. Discuss drilling of 8-1/2" hole.					WEATHER AM	Fine	PM	Fine/cool		

BIT INFORMATION				BHA # 2		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(klb)	12-15	JET V(fps)	332	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		12.5
RPM	103/140	H S I	3.59	8.5 Security		Depth (m)	862	Cementing		1.5
BIT NUMBER	2			Bit sub		Temp (° C)		Circ & Condition		13.0
Size (in)	8.5			6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make	Security			1 x 6.25 DC		Density (ppg)	8.80	D/O Cement	1.0	1.0
Type	EBXSCISC			8.5 Stab.		ECD (ppg)		Drilling	12.5	37.5
IADC Code	117			14 x 6.25 DC's		Viscosity (sec)	34	FIT / LOT	0.5	0.5
Serial Number	10802607			Drilling Jars	9.51	PV / YP (cp/lb)	8 / 9	Handle BHA	1.5	2.0
T.F.A. (")	0.389			2 x 6.25 DC's	18.75	Gells (s/m)		Repairs		29.5
Depth In (m)	581			4 x 4.5 HWDP	36.60	API Filt. (cc)	NC	Rig Service		
Depth Out (m)	IN					Cake (/32")		Rig up Csg./ Cmt.		5.0
Total Meters	281					Solids (% Vol)	2	Run Casing		8.0
Hours	9.6					Sand (% Vol)	TR	Safety		
ROP	29.3					MBT		Slip/Cut Drill Line	1.5	1.5
Condition Out				BHA LENGTH (m)	64.86	pH (strip)	10	Survey	2.5	5.5
FLOW DATA				BHA WEIGHT(kLb)	10.6	Chlorides (mg/l)	21000	Test BOP		4.5
CIRC. RATE (gpm)		402		STRING WT (kLb)	56.7	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)		297		HOOK LOAD (kLb)	72.0	PHPA (ppb)		Tripping	3.5	6.5
AV - DC (fpm)		190		WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)		1300		DRAG UP (kLb)	72.0	Circ. Vol. (Bbl)	522	Wash / Ream	0.5	0.5
SPP (calculated)				DRAG DOWN (kLb)	72.0	CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)	60	Caustic Soda	2	Well Test		
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)	20	PHPA	7	Wiper Trip		6.5
RATE	58	RATE		BULK PRODUCTS		Soda Ash	20	Wireline		
LINER	6.0"	LINER	6.0"	FUEL ON SITE	24300 Litres	Sodium Sulphite	4	Other	0.5	2.0
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1500 Litres	KCL	33	TOTALS	24.0	144.0
SCR: 400/650 @ 30/4				CUM. FUEL USED	42200 Litres	Citric Acid	15	DAILY MUD COSTS		\$3,225.16
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$12,069.54
1° at 679m				BARITES USED	#N/A			AFE COST - C&S		
				MUD MIXED	947 Bbls			AFE COST - P&A		
				MUD LOSSES	593 Bbls			AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	1:30	Cont. to handle new BHA
1:30	2:00	Install wear bushing.
2:00	3:30	Slip and cut drilling line.
3:30	7:00	M/U new bit and BHA and RIH. 549m.
7:00	7:30	Circulate to bottom and tag float at 565m.
7:30	8:30	Drill out float and shoe and 3m of new hole.
8:30	9:00	Perform LOT to 500 psi = 3.7 ppg MACP.
9:00	12:30	Drill 8-1/2" hole from 584m - 691m 130 rpm, 10 - 15K on bit, 450 gpm.
12:30	13:00	Circulate clean survey at 679m 1deg.
13:00	20:30	Drill 8-1/2" hole from 691m - 834m.
20:30	21:30	Circulate clean survey at 822m miss run.
21:30	22:00	Drill 8-1/2" hole from 834m - 844m
22:00	23:00	Circulate clean survey at 832m miss run, have pusher look at survey barrel and fix.
23:00	0:00	drill 8-1/2" hole from 844m - 862m avg on bottom, ROP = 29.27m/h

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	0.1%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	R. Bown	GEOLOGIST:	D. Short	MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

3/04/2007

REPORT # 07

WELL	Kewarra- 1	24:00 DEPTH	1146m	24 HR PROG	284m	CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Cadna-owie	PTD	1600m	DAILY COSTS	
OP's TO 06:00	Drill 8-1/2" hole from 1146m - 1220m. @ 06:00 drilling ahead.						
REMARKS / FORWARD PLAN:	Drill 8-1/2" hole w/- survey's from 862m - 1146m avg ROP of 17.21m/h: Cont. to drill ahead to test point.					PERSONNEL ON SITE:	28
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	461psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 31	SAFETY	1. Discuss keeping mind on job as it is home day. 2. Discuss well with new crew.				WEATHER AM	Fine
					PM	Fine/cool	

BIT INFORMATION				BHA # 2		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(klb)	12-20	JET V(fps)	303	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		12.5
RPM		HSI	2.83	8.5 Security		Depth (m)	1146	Cementing		1.5
BIT NUMBER	2			Bit sub		Temp (° C)		Circ & Condition		13.0
Size (in)	8.5			6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make	Security			1 x 6.25 DC		Density (ppg)	9.10	D/O Cement		1.0
Type	EBXSISC			8.5 Stab.		ECD (ppg)	9.55	Drilling	21.0	58.5
LADC Code	117			14 x 6.25 DC's		Viscosity (sec)	40	FIT / LOT		0.5
Serial Number	10802607			Drilling Jars	9.51	PV / YP (cp/lb)	11 / 13	Handle BHA		2.0
T.F.A. (")	0.389			2 x 6.25 DC's	18.75	Gells (s/m)	2 / 7	Repairs	1.0	30.5
Depth In (m)				4 x 4.5 HWDP	36.60	API Filt. (cc)	6.8	Rig Service	0.5	0.5
Depth Out (m)						Cake (/32")		Rig up Csg./ Cmt.		5.0
Total Meters	1146					Solids (% Vol)	4.1	Run Casing		8.0
Hours	26.1					Sand (% Vol)	TR	Safety		
ROP	21.7					MBT	10	Slip/Cut Drill Line		1.5
Condition Out						pH (strip)	10	Survey	1.5	7.0
FLOW DATA				BHA LENGTH (m)	64.86	Chlorides (mg/l)	19000	Test BOP		4.5
CIRC. RATE (gpm)		368		BHA WEIGHT(kLb)	10.6	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)		272		STRING WT (kLb)	72.8	PHPA (ppb)		Tripping		6.5
AV - DC (fpm)		173		HOOK LOAD (kLb)	82.0	ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)		1150		WT BELOW JARS (kLb)	0.1	Circ. Vol. (Bbl)	579	Wash / Ream		0.5
SPP (calculated)		930		DRAG UP (kLb)	82.0	CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		DRAG DOWN (kLb)	76.0	AMC Pac- R	16	Well Test		
TSM 500		CE DB 550		TORQUE ON (Amps/Rel.)	40	Barite	40	Wiper Trip		6.5
RATE		RATE		53		Soda Ash	7	Wireline		
LINER	6.0"	LINER	6.0"	BULK PRODUCTS		Sodium Sulphite	4	Other		2.0
STROKE	16.0"	STROKE	16.0"	FUEL ON SITE	21000 Litres	Xanthan Gum	5	TOTALS	24.0	168.0
SCR: 500/700 @ 42/5		SCR: 500/700 @ 31/3		DAILY USAGE	3300 Litres	KCL	40	DAILY MUD COSTS		\$6,258.66
SURVEYS				CUM. FUEL USED	45500 Litres	Citric Acid	5	CUM. MUD COSTS		\$18,328.20
				BARITES ON SITE	#N/A	AFE COST - C&S				
				BARITES USED	#N/A	AFE COST - P&A				
				MUD MIXED	1067 Bbls	AFE COST - C&C				
				MUD LOSSES	656 Bbls					

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	6:00	Drill 8-1/2" hole from 862m - 938m.
6:00	6:30	Circulate clean and run Totco survey .5 deg at 926m
6:30	7:00	Have trouble with W/L unit stalling coming out of hole.
7:00	7:30	Continue to drill 8-1/2" hole from 938m - 947m.
7:30	8:00	Rig service.
8:00	17:30	Drill 8-1/2" hole from 947m - 1079m. 125rpm, 18 - 20K On bit, 55 spm.
17:30	18:30	Run Totco survey at 1068m 1-1/8 deg
18:30	21:30	Drill 8-1/2" hole from 1079m - 1117m.
21:30	22:00	Rig repair lost air pressure.
22:00	0:00	Drill 8-1/2" hole from 1117m - 1146m. Avg 24hr ROP = 17.21m/h

MAXIMUM GAS:	.40% @ 1127m	BACKGROUND GAS:	0.3%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	R. Bown	GEOLOGIST:	D. Short	MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

4/04/2007

REPORT # 08

WELL	Kewarra- 1	24:00 DEPTH	1315m	24 HR PROG	169m	CUM. COSTS	\$22,291				
RIG	Hunt Energy # 2	FORMATION	Namur	PTD	1600m	DAILY COSTS	\$3,962.39				
OP's TO 06:00	Rih with BHA and wait on Replacement Swivel.										
REMARKS / FORWARD PLAN:	Drilled to 1286m, Replaced Washpipe, Drilled to 1315m Namur formation, Circulate and clean hole, Pooh with washed out Quill on Swivel						PERSONNEL ON SITE:	29			
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	451psi	BOP TEST	1/04/2007	TEST DUE	15/04
AFD's: 32	SAFETY	1. General safety 2. Housekeeping						WEATHER AM	Fine	PM	Fine/Cool

BIT INFORMATION				BHA # 2		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)	15-20	JET V(fps)	286	TOOL		Time	24:00	BOP's / Wellhead		12.5
RPM	120/130	H S I	2.41			Depth (m)	1315	Cementing		1.5
BIT NUMBER	2			Bit sub		Temp (° C)		Circ & Condition	1.0	14.0
Size (in)	8.5			6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make	Security			1 x 6.25 DC		Density (ppg)	9.20	D/O Cement		1.0
Type	EBXSCISC			8.5 Stab.		ECD (ppg)	9.54	Drilling	15.0	73.5
IADC Code	117			14 x 6.25 DC's		Viscosity (sec)	36	FIT / LOT		0.5
Serial Number	10802607			Drilling Jars	9.51	PV / YP (cp/lb)	8 / 9	Handle BHA		2.0
T.F.A. (")	0.389			2 x 6.25 DC's	18.75	Gells (s/m)	1 / 7	Repairs	7.0	37.5
Depth In (m)	581			4 x 4.5 HWDP	36.60	API Filt. (cc)	8	Rig Service		0.5
Depth Out (m)	1315					Cake (/32")		Rig up Csg./ Cmt.		5.0
Total Meters	734					Solids (% Vol)	4.9	Run Casing		8.0
Hours	48.5					Sand (% Vol)	TR	Safety		
ROP	15.1					MBT	10	Slip/Cut Drill Line		1.5
Condition Out	2 2 WT A E 1 NO TD			BHA LENGTH (m)	64.86	pH (strip)	9	Survey	1.0	8.0
FLOW DATA				BHA WEIGHT(kLb)	10.5	Chlorides (mg/l)	21000	Test BOP		4.5
CIRC. RATE (gpm)	347			STRING WT (kLb)	82.4	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)	256			HOOK LOAD (kLb)	92.0	PHPA (ppb)		Tripping		6.5
AV - DC (fpm)	164			WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)	1150			DRAG UP (kLb)	94.0	Circ. Vol. (Bbl)	637	Wash / Ream		0.5
SPP (calculated)	830			DRAG DOWN (kLb)	90.0	CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)	1850	AMC Pac- R	6	Well Test		
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)	740	PHPA	2	Wiper Trip		6.5
RATE	50	RATE		BULK PRODUCTS			Sodium Sulphite	4	Wireline	
LINER	6.0"	LINER	6.0"	FUEL ON SITE	17600 Litres	Xanthan Gum	1	Other		2.0
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	3400 Litres	KCL	111	TOTALS	24.0	192.0
SCR: 500/800 @ 30/4		SCR: 450/750 @ 30/4		CUM. FUEL USED	48900 Litres			DAILY MUD COSTS		\$3,962.39
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$22,290.59
1.5° at 1219m				BARITES USED	#N/A			APE COST - C&S		
				MUD MIXED	1307 Bbbls			APE COST - P&A		
				MUD LOSSES	839 Bbbls			APE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	7:00	Drill 8-1/2" hole from 1146m - 1231m
7:00	8:00	Circulate and survey at 1219m 1-1/2Deg
8:00	8:30	Drill from 1231m to 1239m
8:30	9:00	Circulate sample, Murta Formation.
9:00	13:30	Drill from 1239m to 1286m
13:30	14:00	Circulate hole clean prior to changing out Washpipe
14:00	16:30	Tighten Quill on Kelly and change out Washpipe
16:30	19:30	Drill from 1286m to 1315m, Namur formation
19:30	20:00	Quill on Swivel washed out, Circulate and clean hole, Pump hevi-wt pill and flow check
20:00	23:00	Pooh to 568m, inside casing shoe
23:00	0:00	Pick up Kelly and break out Quill connection, Rack back

MAXIMUM GAS:	.20% @ 1146m	BACKGROUND GAS:	0.2%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids		

**DAILY DRILLING REPORT**

5/04/2007

REPORT # 09

WELL	Kewarra- 1	24:00 DEPTH	1409m	24 HR PROG	94m	CUM. COSTS	\$26,000				
RIG	Hunt Energy # 2	FORMATION	Namur	PTD	1600m	DAILY COSTS	\$3,708.99				
OP's TO 06:00	Drilling Birkhead Formation at 1455m, Rate of penetration 6mtrs/hr.										
REMARKS / FORWARD PLAN:	Pooh, Check Bit and rih with Bha, Wait on Swivel, Pick up replacement swivel and Rih, Drill ahead with Wireline Surveys.						PERSONNEL ON SITE:	28			
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	461psi	BOP TEST	1/04/2007	TEST DUE	15/04
AFD's: 33	SAFETY	1. Tripping with Drill pipe 2. Mousehole connections using Tail Rope				WEATHER AM	Fine				
						PM	Fine/Cool				

BIT INFORMATION				BHA # 2		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)	20-22	JET V(fps)	286	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		12.5
RPM	80/100	H S I	2.38	8.5 Security		Depth (m)	1409	Cementing		1.5
BIT NUMBER	2			Bit sub		Temp (° C)		Circ & Condition		14.0
Size (in)	8.5			6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make	Security			1 x 6.25 DC		Density (ppg)	9.10	D/O Cement		1.0
Type	EBXSCISC			8.5 Stab.		ECD (ppg)	9.51	Drilling	10.0	83.5
IADC Code	117			14 x 6.25 DC's		Viscosity (sec)	41	FIT / LOT		0.5
Serial Number	10802607			Drilling Jars		PV / YP (cp/lb)	15 / 10	Handle BHA		2.0
T.F.A.(")	0.389			2 x 6.25 DC's		Gells (s/m)	1 / 3	Repairs	13.0	50.5
Depth In (m)	581			4 x 4.5 HWDP		API Filt. (cc)	6.2	Rig Service		0.5
Depth Out (m)	IN					Cake (/32")	1	Rig up Csg./ Cmt.		5.0
Total Meters	828					Solids (% Vol)	4.2	Run Casing		8.0
Hours	58.5					Sand (% Vol)	TR	Safety		
ROP	14.2					MBT	10	Slip/Cut Drill Line		1.5
Condition Out				BHA LENGTH (m)	64.86	pH (strip)	10	Survey	1.0	9.0
FLOW DATA				BHA WEIGHT(kLb)	10.6	Chlorides (mg/l)	21000	Test BOP		4.5
CIRC. RATE (gpm)	347			STRING WT (kLb)	87.9	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)	256			HOOK LOAD (kLb)	98.0	PHPA (ppb)		Tripping		6.5
AV - DC (fpm)	164			WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)	1150			DRAG UP (kLb)	100.0	Circ. Vol. (Bbl)	627	Wash / Ream		0.5
SPP (calculated)	870			DRAG DOWN (kLb)	96.0	CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)	3700	AMC Pac- R	12	Well Test		
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)	740	PHPA	2	Wiper Trip		6.5
RATE		RATE	50	BULK PRODUCTS		Soda Ash	2	Wireline		
LINER	6.0"	LINER	6.0"	FUEL ON SITE		Sodium Sulphite	3	Other		2.0
STROKE	16.0"	STROKE	16.0"	DAILY USAGE		Xanthan Gum	3	TOTALS	24.0	216.0
SCR: 500/700 @ 30/3		SCR: 500/700 @ 31/3		CUM. FUEL USED		KCL	14	DAILY MUD COSTS	\$3,708.99	
SURVEYS				BARITES ON SITE				CUM. MUD COSTS	\$25,999.58	
1.5° at 1370m				BARITES USED				AFE COST - C&S		
				MUD MIXED				AFE COST - P&A		
				MUD LOSSES				AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400			
From	To	Description	
0:00	3:00	Pooh to surface , Gauge stabilizer and Bit	
3:00	4:30	Rih with Bottomhole Assembly	
4:30	6:00	Pick up Swivel and break out Kelly hose and lay out Swivel	
6:00	9:00	Wait on Swivel	
9:00	10:00	Pick up replacement 150 Ton Swivel and make up KellyHose and Test run, Okay.	
10:00	13:00	Rih to 1299m with good hole conditions	
13:00	20:00	Wash 16mtrs to bottom to 1315m, Drill ahead to 1379m, Gpm 340, Wob 20k, Rpm 80/100	
20:00	21:00	Run wireline survey at 1370m, 1-1/2Degs	
21:00	0:00	Drill ahead from 1379m to 1409m, Gpm 340, Wob 20k, Rpm 80/100	
MAXIMUM GAS:	% @ m	BACKGROUND GAS:	0.2%
CONNECTION GAS:	%	TRIP GAS:	.78%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short
		MUD CO:	RMN Drilling Fluids



DAILY DRILLING REPORT

6/04/2007

REPORT # 10

WELL	Kewarra- 1	24:00 DEPTH	1492m	24 HR PROG	83m	CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Hutton	PTD	1600m	DAILY COSTS	
OP's TO 06:00	Circulate Sample at 1527m, Patchawarra Formation						
REMARKS / FORWARD PLAN:	Drill to 1485m, Pooh and change Bit, Rih with Rerun Bit to shoe , Slip and cut drilling line, Rih and drill ahead to 1492m.					PERSONNEL ON SITE:	28
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	461psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 34	SAFETY	1. Running Wireline surveys 2. Tripping				WEATHER AM	Fine
						PM	Fine/Cool

BIT INFORMATION				BHA # 3		MUD PROPERTIES		OPERATION	HRS	CUM	
WOB(kLb)	20-25	JET V(fps)	286	TOOL		Time	24:00	BOP's / Wellhead		12.5	
RPM	80	H S I	2.38			Depth (m)	1492	Cementing		1.5	
BIT NUMBER	3		2			Temp (° C)		Circ & Condition	1.5	15.5	
Size (in)	8.5		8.5	Bit sub		Mud Type	KCL Polymer	Coring			
Make	Reed	Security		6.25" pony DC.		Density (ppg)	9.10	D/O Cement		1.0	
Type	TD43APDH	EBXSCISC		15 x 6.25 DC		ECD (ppg)	9.54	Drilling	11.5	95.0	
IADC Code	417	117		Drilling Jars	9.51	Viscosity (sec)	38	FIT / LOT		0.5	
Serial Number	L45051	10802607		2 x 6.25 DC's	18.75	PV / YP (cp/lb)	12 / 14	Handle BHA		2.0	
T.F.A.()	0.389	0.389		4 x 4.5 HWDP	36.60	Gells (s/m)	1 / 3	Repairs		50.5	
Depth In (m)	1485	581				API Filt. (cc)	6.4	Rig Service		0.5	
Depth Out (m)	IN	1485				Cake (/32")	1	Rig up Csg./ Cmt.		5.0	
Total Meters	7	904				Solids (% Vol)	4.2	Run Casing		8.0	
Hours	1	69				Sand (% Vol)	TR	Safety			
ROP	7.0	13.1				MBT	10	Slip/Cut Drill Line	2.0	3.5	
Condition Out	5 5 WT A E 3 ER TQ			BHA LENGTH (m)	64.86	pH (strip)	10	Survey		9.0	
FLOW DATA				BHA WEIGHT(kLb)	10.4	Chlorides (mg/l)	22000	Test BOP		4.5	
CIRC. RATE (gpm)	347			STRING WT (kLb)	92.6	KCL (%)	4	Tight hole / Fishing			
AV - DP (fpm)	256			HOOK LOAD (kLb)	103.0	PHPA (ppb)		Tripping	9.0	15.5	
AV - DC (fpm)	164			WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5	
SPP (psi)	1200			DRAG UP (kLb)	104.0	Circ. Vol. (Bbl)	665	Wash / Ream		0.5	
SPP (calculated)	880			DRAG DOWN (kLb)	102.0	CHEMICAL USAGE		Well Control			
PUMP #1	PUMP #2			TORQUE ON (Amps/Rel.)	6290	AMC Pac- R	1	Well Test			
TSM 500	CE DB 550			TORQUE OFF (Amps/Rel.)	1850	Biocide G	4	Wiper Trip		6.5	
RATE	50	RATE		BULK PRODUCTS				PHPA	1	Wireline	
LINER	6.0"	LINER	6.0"	FUEL ON SITE	14500 Litres	Xanthan Gum	4	Other		2.0	
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1500 Litres	KCL	26	TOTALS	24.0	240.0	
SCR: 500/700 @ 30/3				CUM. FUEL USED	52000 Litres			DAILY MUD COSTS		\$3,008.30	
SCR: 500/700 @ 31/3				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$29,007.88	
SURVEYS				BARITES USED	#N/A			APE COST - C&S			
				MUD MIXED	1567 Bbbls			APE COST - P&A			
				MUD LOSSES	1071 Bbbls			APE COST - C&C			

HOURLY OPERATIONS SUMMARY 0000 to 2400																		
From	To	Description																
0:00	9:00	Drill from 1409m to 1474m, Gpm 340, Wob 25k, Rpm 80/90																
9:00	9:30	Circulate Sample, Hutton Formation, Top @ 1465m, 3m Low.																
9:30	11:00	Drill ahead from 1474m to 1485m, Gpm 340, Wob 25k, Rpm 80, High Torque.																
11:00	11:30	Circulate and clean hole prior to Pooh to change Bit																
11:30	12:00	Flow check, Pump Hevi-wt Pill, Rack Kelly																
12:00	16:30	Pooh with good hole conditions, Lay down Stabilizer, 3/16" Undergauge																
16:30	18:30	Make up No-3 Bit Rerun and Rih to 567m																
18:30	20:30	Slip 30ft and Cut 30ft drilling line, broke 2 line Cutters.																
20:30	23:00	Rih to 1464m, Breal circulation at 1000m, Wash to 1485m																
23:00	0:00	Drill from 1485m to 1492m,Gpm 340, Wob 25k, Rpm 80,																
<table border="0"> <tr> <td>MAXIMUM GAS:</td> <td>1.4% @ 1456m</td> <td>BACKGROUND GAS:</td> <td>0.3%</td> <td>CONNECTION GAS:</td> <td>%</td> <td>TRIP GAS:</td> <td>.18%</td> </tr> <tr> <td>SUPERVISOR:</td> <td>Gary Mogg</td> <td>GEOLOGIST:</td> <td>D.Short</td> <td>MUD CO:</td> <td>RMN Drilling Fluids</td> <td colspan="2"></td> </tr> </table>			MAXIMUM GAS:	1.4% @ 1456m	BACKGROUND GAS:	0.3%	CONNECTION GAS:	%	TRIP GAS:	.18%	SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids		
MAXIMUM GAS:	1.4% @ 1456m	BACKGROUND GAS:	0.3%	CONNECTION GAS:	%	TRIP GAS:	.18%											
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids													



DAILY DRILLING REPORT

7/04/2007

REPORT # 11

WELL	Kewarra- 1	24:00 DEPTH	1586m	24 HR PROG	94m	CUM. COSTS	\$33,752
RIG	Hunt Energy # 2	FORMATION	Patchawarra	PTD	1600m	DAILY COSTS	\$4,743.75
OP's TO 06:00 Rih for DST-1 to test Interval 1520m to 1536m, Patchawarra Formation, Pick up 15ft Pup Joint.							
REMARKS / FORWARD PLAN: Drill to 1586m, Wiper trip to 1453m, Rih, Circulate and clean hole, Pump Pill, Pooh and make up Test Tool for DST-1.						PERSONNEL ON SITE:	28
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	451psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 35	SAFETY	1. Picking up Drill Pipe 2. JSA, Making up Test Tools				WEATHER AM	Fine
						PM	Fine/Cool

BIT INFORMATION				BHA # 3		MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)	20-25	JET V(fps)	286	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		12.5
RPM	80	H S I	2.41	8.5 Reed		Depth (m)	1586	Cementing		1.5
BIT NUMBER	3			Bit sub		Temp (° C)		Circ & Condition	3.0	18.5
Size (in)	8.5			6.25" pony DC.		Mud Type	KCL Polymer	Coring		
Make	Reed			15 x 6.25 DC		Density (ppg)	9.20	D/O Cement		1.0
Type	TD43APDH			Drilling Jars	9.51	ECD (ppg)	9.83	Drilling	11.5	106.5
IADC Code	417			2 x 6.25 DC's	18.75	Viscosity (sec)	41	FIT / LOT		0.5
Serial Number	L45051			4 x 4.5 HWDP	36.60	PV / YP (cp/lb)	11 / 16	Handle BHA	1.0	3.0
T.F.A.(°)	0.389					Gells (s/m)	3 / 7	Repairs		50.5
Depth In (m)	1485					API Filt. (cc)	6	Rig Service		0.5
Depth Out (m)	IN					Cake (/32")	1	Rig up Csg./ Cmt.		5.0
Total Meters	101					Solids (% Vol)	4.9	Run Casing		8.0
Hours	12.5					Sand (% Vol)	TR	Safety		
ROP	8.1					MBT	10	Slip/Cut Drill Line		3.5
Condition Out				BHA LENGTH (m)	64.86	pH (strip)	10	Survey		9.0
FLOW DATA				BHA WEIGHT(kLb)	10.4	Chlorides (mg/l)	22000	Test BOP		4.5
CIRC. RATE (gpm)	347			STRING WT (kLb)	97.8	KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)	256			HOOK LOAD (kLb)	104.0	PHPA (ppb)		Tripping	6.0	21.5
AV - DC (fpm)	164			WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)	1200			DRAG UP (kLb)	108.0	Circ. Vol. (Bbl)	672	Wash / Ream		0.5
SPP (calculated)	940			DRAG DOWN (kLb)	102.0	CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)	6290	AMC Pac- R	1	Well Test		
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)	1850	Barite	15	Wiper Trip	1.5	8.0
RATE	50	RATE		BULK PRODUCTS		Biocide G	1	Wireline		
LINER	6.0"	LINER	6.0"	FUEL ON SITE	12600 Litres	Sodium Sulphite	4	Other	1.0	3.0
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1900 Litres	Xanthan Gum	6	TOTALS	24.0	264.0
SCR: 400/700 @ 30/4				CUM. FUEL USED	53900 Litres	KCL	26	DAILY MUD COSTS	\$4,743.75	
SURVEYS				BARITES ON SITE	#N/A	Wildcat 420	1	CUM. MUD COSTS	\$33,751.63	
MR° at 1574m				BARITES USED	#N/A			AFE COST - C&S		
				MUD MIXED	1647 Bbls			AFE COST - P&A		
				MUD LOSSES	1144 Bbls			AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	5:00	Drill from 1492m to 1527m, Gpm 340, Wob 25, Rpm 80
5:00	6:30	Circulate Sample , Patchawarra Formation, Top @ 1521m 3m Low
6:30	13:00	Drill ahead from 1527m to 1586m, Gpm 340, Wob 25k, Rpm 80
13:00	13:30	Circulate and clean hole prior to Pooh for wiper trip
13:30	15:00	Pooh to 1453 no hole problems, Rih to 1574m
15:00	16:00	Wash 12m to bottom, Circulate and clean hole, Spot Hi-Vis on Bottom
16:00	22:00	Pump Hevi-wt Pill, Drop Survey, Pooh for DST-1, Lay down 1x6-1/4"Dc, Jars and Pony Dc
22:00	23:00	Prepare Test Tools, clean floor, Hold JSA and Safety meeting with Testers
23:00	0:00	Make up Test Tools to test interval 1520m to 1536m

MAXIMUM GAS:	5.04% @ 1549m	BACKGROUND GAS:	0.52%	CONNECTION GAS:	%	TRIP GAS:	0.7%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO: RMN Drilling Fluids			



DAILY DRILLING REPORT

8/04/2007

REPORT # 12

WELL	Kewarra- 1	24:00 DEPTH	1586m	24 HR PROG	CUM. COSTS					
RIG	Hunt Energy # 2	FORMATION	Patchawarra	PTD	1600m					
DAILY COSTS										
OP's TO 06:00 Circulate and Wash 70mtrs to Bottom, Gas cut mud.										
REMARKS / FORWARD PLAN:	Make up Test Tools and rih for DST-1, Perform Test, Pooh and lay down Tools, Make up Rerun Bit and Rih with Slick Assembly.				PERSONNEL ON SITE:	28				
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg MAASP	451psi	BOP TEST	1/04/2007	TEST DUE	15/04
AFD's: 36	SAFETY	1. Using the correct Tools for the Job 2. Weekly Safety Meeting, Main discussions on using JSA.				WEATHER AM	Fine	PM	Fine/Cool	

BIT INFORMATION				MUD PROPERTIES		OPERATION	HRS	CUM
WOB(kLb)	JET V(fps)	TOOL	LENGTH	Time	24:00	BOP's / Wellhead		12.5
RPM	H S I			Depth (m)	1586	Cementing		1.5
BIT NUMBER				Temp (° C)		Circ & Condition		18.5
Size (in)				Mud Type	KCL Polymer	Coring		
Make				Density (ppg)	9.20	D/O Cement		1.0
Type				ECD (ppg)		Drilling		106.5
IADC Code				Viscosity (sec)	41	FIT / LOT		0.5
Serial Number				PV / YP (cp/lb)	11 / 16	Handle BHA	6.0	9.0
T.F.A.(")				Gells (s/m)	3 / 7	Repairs		50.5
Depth In (m)				API Filt. (cc)	6	Rig Service		0.5
Depth Out (m)				Cake (/32")	1	Rig up Csg./ Cmt.		5.0
Total Meters				Solids (% Vol)	4.9	Run Casing		8.0
Hours				Sand (% Vol)	TR	Safety		
ROP				MBT	10	Slip/Cut Drill Line		3.5
Condition Out				pH (strip)	10	Survey		9.0
FLOW DATA				CHEMICAL USAGE				
CIRC. RATE (gpm)				BHA LENGTH (m)		Well Control		
AV - DP (fpm)				BHA WEIGHT(kLb)	Chlorides (mg/l)	22000	Well Test	8.0
AV - DC (fpm)				STRING WT (kLb)	KCL (%)	4	Wiper Trip	8.0
SPP (psi)				HOOK LOAD (kLb)	82/102	PHPA (ppb)	Wireline	
SPP (calculated)				WT BELOW JARS (kLb)		ALC - 50 (K)	Other	2.0
PUMP #1				DRAG UP (kLb)		Circ. Vol. (Bbl)	669	5.0
PUMP #2				DRAG DOWN (kLb)		TOTALS		
TSM 500				TORQUE ON (Amps/Rel.)				24.0
CE DB 550				TORQUE OFF (Amps/Rel.)				288.0
SURVEYS				BULK PRODUCTS				
RATE		RATE		FUEL ON SITE	18900	DAILY MUD COSTS		
LINER	6.0"	LINER	6.0"	DAILY USAGE	-6300	CUM. MUD COSTS		
STROKE	16.0"	STROKE	16.0"	CUM. FUEL USED	47600	\$33,751.63		
				BARITES ON SITE	#N/A	AFE COST - C&S		
				BARITES USED	#N/A	AFE COST - P&A		
				MUD MIXED	1647	AFE COST - C&C		
				MUD LOSSES	1147			

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	2:30	Make up test tools with Dual Packers
2:30	6:00	Rih with test tool for DST-1 to test interval 1520m to 1536m = 16m, Patchawarra formation, No hole problems
6:00	7:00	Rig up test head and surface lines, Pressure test Lines
7:00	8:00	Replace 2" Ball valve on choke side of Flareline, Hold PJSM
8:00	10:30	Set Pkrs with Tool open for 2 minute Preflow and 20minute Shut-in, Reopen Tool for 2hrs on Second Flow with no Fluid or Gas to surface
10:30	14:30	Close Tool for 4hrs, Monitor Well
14:30	16:00	Pull free at 14.36hrs with 15k overpull, Drop Bar and reverse circulate, Recoverd 6bbls rathole mud and 59bbls formation water
16:00	20:30	Pooh with Test Tool and hole taken the correct volume of mud
20:30	0:00	Lay down Test Tools with water only in Sample Chamber, Clean Drill floor

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

9/04/2007

REPORT # 13

WELL	Kewarra- 1	24:00 DEPTH	1630m	24 HR PROG	44m	CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Basement	PTD	1600m	DAILY COSTS	
OP's TO 06:00	Lay down Combination Tool, Make up Sidewall Coring Gun.						
REMARKS / FORWARD PLAN:	Rih and work on Junk, Drill to TD at 1630m, Circulate and drop survey, Pooh, Rig up Wireline, Rih and Log with HALS-BHC-DEN-CAL-NEUT-SP-GR, Pooh.					PERSONNEL ON SITE:	33
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	451psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 37	SAFETY	1. Drilling and making Connections 2. Tripping				WEATHER AM	Fine
						PM	Fine/Cool

BIT INFORMATION				BHA # 3		MUD PROPERTIES		OPERATION	HRS	CUM	
WOB(kLb)	20-25	JET V(fps)	296	TOOL		Time	24:00	BOP's / Wellhead		12.5	
RPM	80	H S I	3.09	LENGTH		Depth (m)	1630	Cementing		1.5	
BIT NUMBER	3			8.5 Reed		Temp (° C)		Circ & Condition	0.5	19.0	
Size (in)	8.5			Bit sub		Mud Type	KCL Polymer	Coring			
Make	Reed			6.25" pony DC.		Density (ppg)	9.20	D/O Cement		1.0	
Type	TD43APDH			15 x 6.25 DC		ECD (ppg)	9.66	Drilling	4.5	111.0	
IADC Code	417			Drilling Jars	9.51	Viscosity (sec)	38	FIT / LOT		0.5	
Serial Number	L45051			2 x 6.25 DC's	18.75	PV / YP (cp/lb)	10 / 14	Handle BHA		9.0	
T.F.A.(")	0.451			4 x 4.5 HWDP	36.60	Gells (s/m)	3 / 7	Repairs		50.5	
Depth In (m)	1485					API Filt. (cc)	6.8	Rig Service		0.5	
Depth Out (m)	1630					Cake (/32")	1	Rig up Csg / Cmt.		5.0	
Total Meters	145					Solids (% Vol)	4.9	Run Casing		8.0	
Hours	17					Sand (% Vol)	TR	Safety			
ROP	8.5					MBT	10	Slip/Cut Drill Line		3.5	
Condition Out	6 3 BT S E I LN TD			BHA LENGTH (m)	64.86	pH (strip)	9	Survey	0.5	9.5	
FLOW DATA				BHA WEIGHT(kLb)	10.4	Chlorides (mg/l)	21000	Test BOP		4.5	
CIRC. RATE (gpm)	416			STRING WT (kLb)	100.3	KCL (%)	4	Tight hole / Fishing			
AV - DP (fpm)	307			HOOK LOAD (kLb)	114.0	PHPA (ppb)		Tripping	10.0	39.5	
AV - DC (fpm)	196			WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5	
SPP (psi)	900/700			DRAG UP (kLb)	118.0	Circ. Vol. (Bbl)	706	Wash / Ream	1.0	1.5	
SPP (calculated)	980			DRAG DOWN (kLb)	110.0	CHEMICAL USAGE		Well Control			
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)	6475	AMC Pac- R	5	Well Test		8.0	
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)	740	Biocide G	4	Wiper Trip		8.0	
RATE	60	RATE		BULK PRODUCTS			Lime	2	Wireline	2.0	2.0
LINER	6.0"	LINER	6.0"	FUEL ON SITE	17650 Litres	PHPA	2	Other	5.5	10.5	
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1250 Litres	Sodium Sulphite	4	TOTALS	24.0	312.0	
				CUM. FUEL USED	48850 Litres	Xanthan Gum	2	DAILY MUD COSTS		\$2,700.79	
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS		\$36,452.42	
1.5° at 1620m				BARITES USED	#N/A			AFE COST - C&S			
				MUD MIXED	1684 Bbbls			AFE COST - P&A			
				MUD LOSSES	1147 Bbbls			AFE COST - C&C			

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	4:30	Rih with Rerun 417 Bit to drill ahead
4:30	5:30	Wash 70 mtrs to bottom 1516m to 1586m, Gas cut mud.
5:30	8:30	Work on Junk in hole, Work Kelly and Jar up 10mtrs, Lost 200psi at 50spm, 340gpm
8:30	9:00	Drill ahead from 1586m to 1592m, Spm 60=Gpm 406, Rpm 80, Wob 25k, Increased Spm from 50 top 60..
9:00	11:30	Make connection and tag bottom and work on Junk, Gpm 406.
11:30	15:30	Drill ahead from 1592m to 1630m, Gpm 406, Rpm 80, Wob 25k, Basement Top @ 1594m - 27m Low to prog. Drill 36m.
15:30	16:00	Circulate bottoms up, Gpm 406.
16:00	16:30	Flow check, Pump Hevi-wt Pill, Rack Kelly, Drop Totco survey
16:30	22:00	Pooh to run wireline Logs, Good hole conditions
22:00	22:30	Rig up Schlumberger wireline and hold PJSM.
22:30	0:00	Make up Combination Tool and Rih. Loggers Depth 1631m

MAXIMUM GAS:	0.36% @ 1591m	BACKGROUND GAS:	0.1%	CONNECTION GAS:	%	TRIP GAS:	1.72%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

10/04/2007

REPORT # 14

WELL	Kewarra- 1	24:00 DEPTH	1630m	24 HR PROG		CUM. COSTS	\$36,452
RIG	Hunt Energy # 2	FORMATION	Basement	PTD	1600m	DAILY COSTS	
OP's TO 06:00	Rih and shoot 16 cores, Lay down Gun, Rih with Rerun Bit to 700m, Pooh to lay down Bha						
REMARKS / FORWARD PLAN:	Run Combination logging tool, Wait on orders, Run Sidewall coring gun, Rih with Rerun Bit to shoe, Slip and cut drilling line, Rih to 771m, Pooh , Run No-2 sidewall Cores					PERSONNEL ON SITE:	33
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	451psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 38	SAFETY	1. Cleaning Production Casing 2. Maintaining Equipment for safe operations				WEATHER AM	Fine
					PM	Fine/Cool	

BIT INFORMATION				BHA # 3		MUD PROPERTIES		OPERATION	HRS	CUM	
WOB(kLb)		JET V(fps)		TOOL		Time	24:00	BOP's / Wellhead		12.5	
RPM		H S I		8.5 Reed		Depth (m)	1630	Cementing		1.5	
BIT NUMBER				Bit sub		Temp (° C)		Circ & Condition		19.0	
Size (in)				6.25" pony DC.		Mud Type	KCL Polymer	Coring			
Make				15 x 6.25 DC		Density (ppg)	9.20	D/O Cement		1.0	
Type				Drilling Jars	9.51	ECD (ppg)		Drilling		111.0	
IADC Code				2 x 6.25 DC's	18.75	Viscosity (sec)	38	FIT / LOT		0.5	
Serial Number				4 x 4.5 HWDP	36.60	PV / YP (cp/lb)	10 / 14	Handle BHA		9.0	
T.F.A. (")						Gells (s/m)	3 / 7	Repairs		50.5	
Depth In (m)						API Filt. (cc)	7	Rig Service		0.5	
Depth Out (m)						Cake (/32")	1	Rig up Csg./ Cmt.		5.0	
Total Meters						Solids (% Vol)	4.9	Run Casing		8.0	
Hours						Sand (% Vol)	TR	Safety			
ROP						MBT	10	Slip/Cut Drill Line	1.0	4.5	
Condition Out				BHA LENGTH (m)	64.86	pH (strip)	9	Survey		9.5	
FLOW DATA				BHA WEIGHT(kLb)	10.4	Chlorides (mg/l)	20000	Test BOP		4.5	
CIRC. RATE (gpm)				STRING WT (kLb)	100.3	KCL (%)	4	Tight hole / Fishing			
AV - DP (fpm)				HOOK LOAD (kLb)		PHPA (ppb)		Tripping		39.5	
AV - DC (fpm)				WT BELOW JARS (kLb)	0.1	ALC - 50 (K)		Wait on Cement		6.5	
SPP (psi)				DRAG UP (kLb)		Circ. Vol. (Bbl)	701	Wash / Ream		1.5	
SPP (calculated)				DRAG DOWN (kLb)		CHEMICAL USAGE		Well Control			
PUMP #1		PUMP #2		TORQUE ON (Amps/Rel.)				Well Test		8.0	
TSM 500		CE DB 550		TORQUE OFF (Amps/Rel.)				Wiper Trip	6.0	14.0	
RATE		RATE		BULK PRODUCTS				Wireline	14.0	16.0	
LINER	6.0"	LINER	6.0"	FUEL ON SITE	16000 Litres			Other	3.0	13.5	
STROKE	16.0"	STROKE	16.0"	DAILY USAGE	1650 Litres			TOTALS	24.0	336.0	
				CUM. FUEL USED	50500 Litres			DAILY MUD COSTS			
SURVEYS				BARITES ON SITE	#N/A			CUM. MUD COSTS			\$36,452.42
				BARITES USED	#N/A			AFE COST - C&S			
				MUD MIXED	1684 Bbbls			AFE COST - P&A			
				MUD LOSSES	1152 Bbbls			AFE COST - C&C			

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	5:00	Run No-1 HALS-BHC-DEN-CAL-NEUT-SP-GR
5:00	5:30	Lay down Combination Tools
5:30	8:30	Wait on Orders
8:30	11:00	Load sidewall coring gun, 30 shot
11:00	14:30	Rih and shot Cores as per program
14:30	15:00	Lay down Sidewall coring gun, Fired 30 shots recovered 30 cores
15:00	18:00	Rig down Schlumberger wireline, Make up Rerun Bit and Bit Sub and rih to shoe
18:00	19:00	Slip 30ft and Cut 30ft drilling line.
19:00	19:30	Rih to 771mtrs then received orders to shoot more Cores
19:30	22:00	Pooh for Schlumberger, Load Sidewall coring Gun, 16 shot
22:00	22:30	Rig up Schlumberger wireline and hold PJSM.
22:30	0:00	Rih and shot Cores as per program

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	Gary Mogg	GEOLOGIST:	D.Short	MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

11/04/2007

REPORT # 15

WELL	Kewarra- 1	24:00 DEPTH	1630m	24 HR PROG		CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Basement	PTD	1600m	DAILY COSTS	\$220.38
OP's TO 06:00	Plug No-6 in place at 02:30hrs, Lay down excess Drill pipe while waiting on Samples.						
REMARKS / FORWARD PLAN:	Run 16 sidewall cores and recover 13 cores, Rih to 700m, Pooh and lay down Bha, Pull Wearbushing, Rih open-ended D/P,Circulate and Run 6 cement plugs as programmed.					PERSONNEL ON SITE:	30
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	451psi
		BOP TEST	1/04/2007	TEST DUE	15/04		
AFD's: 39	SAFETY	1. Job-18, Tripping with drill collars, Emergency response Well control drill 2. Running cement plugs, Well control drill.				WEATHER AM	Fine
					PM	Fine/Cool	

BIT INFORMATION				MUD PROPERTIES		OPERATION	HRS	CUM		
WOB(kLb)		JET V(fps)		TOOL	LENGTH	Time	24:00	BOP's / Wellhead	12.5	
RPM		H S I				Depth (m)	1630	Cementing	6.0	7.5
BIT NUMBER						Temp (° C)		Circ & Condition	2.5	21.5
Size (in)						Mud Type	KCL Polymer	Coring		
Make						Density (ppg)	9.20	D/O Cement		1.0
Type						ECD (ppg)		Drilling		111.0
IADC Code						Viscosity (sec)	38	FIT / LOT		0.5
Serial Number						PV / YP (cp/lb)	10 / 14	Handle BHA	3.0	12.0
T.F.A.(")						Gells (s/m)	3 / 7	Repairs		50.5
Depth In (m)						API Filtr. (cc)	7	Rig Service	0.5	1.0
Depth Out (m)						Cake (/32")	1	Rig up Csg./ Cmt.		5.0
Total Meters						Solids (% Vol)	4.9	Run Casing		8.0
Hours						Sand (% Vol)	TR	Safety		
ROP						MBT	10	Slip/Cut Drill Line		4.5
Condition Out						pH (strip)	9	Survey		9.5
FLOW DATA				BHA LENGTH (m)		Chlorides (mg/l)	20000	Test BOP		4.5
CIRC. RATE (gpm)		STRING WT (kLb)		BHA WEIGHT(kLb)		KCL (%)	4	Tight hole / Fishing		
AV - DP (fpm)		HOOK LOAD (kLb)		WT BELOW JARS (kLb)		PHPA (ppb)		Tripping	5.0	44.5
AV - DC (fpm)		DRAG UP (kLb)		DRAG DOWN (kLb)		ALC - 50 (K)		Wait on Cement		6.5
SPP (psi)		TORQUE ON (Amps/Rel.)		TORQUE OFF (Amps/Rel.)		Circ. Vol. (Bbl)	725	Wash / Ream		1.5
SPP (calculated)		BULK PRODUCTS				CHEMICAL USAGE		Well Control		
PUMP #1		PUMP #2				SAPP	3	Well Test		8.0
TSM 500		CE DB 550						Wiper Trip	2.0	16.0
RATE		RATE						Wireline	3.5	19.5
LINER	6.0"	LINER	6.0"					Other	1.5	15.0
STROKE	16.0"	STROKE	16.0"					TOTALS	24.0	360.0
SURVEYS								DAILY MUD COSTS		\$220.38
								CUM. MUD COSTS		\$36,672.80
								AFE COST - C&S		
								AFE COST - P&A		
								AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	3:30	Log up and shoot 16 sidewall cores, Pooh and recovered 13 cores
3:30	5:30	Rih to 700m for wiper trip, Orders to P&A
5:30	6:30	Pooh to top of BHA.
6:30	9:30	Lay down Hwd/p, Dcs, Bit Sub and Bit
9:30	10:00	Lay down Schlumberger Wireline Sheaves and clean floor
10:00	10:30	Service Rig
10:30	11:30	Pick up 1 joint of Drill pipe and make up combination Tool and Retrieve Wearbushing
11:30	15:30	Rih Open-ended Drill pipe to 1412m, Pick up 20 singles drill pipe and Rih to 1613m
15:30	17:00	Circulate and condition hole prior to running cement plugs
17:00	18:00	Circulate and rig up Halliburton surface lines, Hold PJSM
18:00	19:30	Run Plug No-1 from 1613m-1578m with 42Sacks "G" + 0.30% Cfr-3 + 0.10% Hr-5 @ 15.8ppg, Pull back to 1538m and circulate
19:30	21:00	Run Plug No-2 from 1538m-1419m with 144Sacks "G" + 0.30% Cfr-3 + 0.10% Hr-5 @ 15.8ppg, Pull back to 1284m and circulate
21:00	23:00	Run Plug No-3 from 1284m-1234m with 62sacks "G" + 0.30% Cfr-3 + 0.10% Hr-5 @ 15.8ppg, Pull back to 1187m and circulate
23:00	0:00	Run Plug No-4 from 1187m-1070m with 162sacks "G" + 0.30% Cfr-3 @ 15.8ppg, Pull 7 stands drill pipe and circulate

MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%
SUPERVISOR:	Gary Mogg	GEOLOGIST:		MUD CO:	RMN Drilling Fluids		



DAILY DRILLING REPORT

12/04/2007

REPORT # 16

WELL	Kewarra- 1	24:00 DEPTH	1630m	24 HR PROG		CUM. COSTS	
RIG	Hunt Energy # 2	FORMATION	Basement	PTD	1600m	DAILY COSTS	
OP's TO 06:00 Released Rig @ 22:00hrs, Commence rigging down and prepare for Move to Bodalla Sth-16.							
REMARKS / FORWARD PLAN: Run Plug No-5-6, Lay down excess D/P, Rih and tag Shoe Plug, Lay down remaining Pipe, Nipple down and lay out Bops, Back out BH, Cement Top-up , Clean tanks, lay out Kelly.						PERSONNEL ON SITE: 26	
LAST CASING	9 5/8"	SET AT	578.3m	LOT	13.8ppg	MAASP	#VALUE!
				BOP TEST	1/04/2007	TEST DUE	15/04
AFD's: 40	SAFETY 1. Laying out Drill Pipe 2. Nippling down Bops					WEATHER AM	Fine
						PM	Fine/Cool

BIT INFORMATION				MUD PROPERTIES				OPERATION	HRS	CUM	
WOB(kLb)		JET V(fps)		TOOL		Time	24:00	BOP's / Wellhead	6.5	19.0	
RPM		H S I		LENGTH		Depth (m)	1630	Cementing	2.5	10.0	
BIT NUMBER						Temp (° C)		Circ & Condition		21.5	
Size (in)						Mud Type	KCL Polymer	Coring			
Make						Density (ppg)	Set	D/O Cement		1.0	
Type						ECD (ppg)		Drilling		111.0	
IADC Code						Viscosity (sec)	Cement	FIT / LOT		0.5	
Serial Number						PV / YP (cp/lb)	Plugs / Dumped	Handle BHA		12.0	
T.F.A. (")						Gells (s/m)	Mud /	Repairs		50.5	
Depth In (m)						API Filt. (cc)		Rig Service		1.0	
Depth Out (m)						Cake (/32")		Rig up Csg./ Cmt.		5.0	
Total Meters						Solids (% Vol)		Run Casing		8.0	
Hours						Sand (% Vol)		Safety			
ROP						MBT		Slip/Cut Drill Line		4.5	
Condition Out						pH (strip)		Survey		9.5	
FLOW DATA				BHA LENGTH (m)							
CIRC. RATE (gpm)				BHA WEIGHT(kLb)							
AV - DP (fpm)				STRING WT (kLb)							
AV - DC (fpm)				HOOK LOAD (kLb)							
SPP (psi)				WT BELOW JARS (kLb)							
SPP (calculated)				DRAG UP (kLb)							
PUMP #1				PUMP #2				CHEMICAL USAGE			
TSM 500				CE DB 550							
RATE		RATE		TORQUE ON (Amps/Rel.)							
LINER	6.0"	LINER	6.0"	TORQUE OFF (Amps/Rel.)							
STROKE	16.0"	STROKE	16.0"	BULK PRODUCTS							
				FUEL ON SITE				14250	Litres		
				DAILY USAGE				1250	Litres		
				CUM. FUEL USED				52250	Litres		
SURVEYS				BARITES ON SITE				#N/A			
				BARITES USED				#N/A			
				MUD MIXED				1684	Bbls		
				MUD LOSSES				1877	Bbls		
HOURLY OPERATIONS SUMMARY 0000 to 2400											
From	To	Description									
0:00	0:30	Pull back and Run Plug No-5 from 988-938m with 71sacks"G"+0.20%Cfr-3 @ 15.8ppg, Pull 5 stands and circulate									
0:30	2:30	Pull back and Run Plug No-6 from 603-553m with 74sacks"G"+0.30%Cfr-3 @ 15.8ppg, Pull 5 stands and circulate									
2:30	9:00	Lay down excess drill pipe									
9:00	10:00	Rih and tag shoe plug at 551m with 10k Weight, 2m above programmed depth, Pressure test to 500psi and hold for 5minutes, okay.									
10:00	11:30	Lay down 2 singles and pick up Kelly and break Circulation. Break out connections on Kelly, Rack kelly.									
11:30	13:30	Lay Down remaining drill pipe									
13:30	17:00	Lay out mousehole, ND Flow nipple,Choke line, Koomey line and Kill line, Dump and clean mud tanks									
17:00	19:00	ND Bops and lay out same									
19:00	20:00	Pick up Kelly and back out Bradenhead									
20:00	21:00	15 Sack cement top-up on 9-5/8" casing									
21:00	22:00	Lay out Kelly and complete cleaning out mud tanks, Release Rig									
22:00	0:00	Commence rigging down Drill floor.									
MAXIMUM GAS:	% @ m	BACKGROUND GAS:	%	CONNECTION GAS:	%	TRIP GAS:	%				
SUPERVISOR:	Gary Mogg			GEOLOGIST:				MUD CO:	RMN Drilling Fluids		

TOTALS 24.0 384.0

DAILY MUD COSTS

CUM. MUD COSTS \$36,672.80

AFE COST - C&S

AFE COST - P&A

AFE COST - C&C



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 1 - 5 **DAYS FROM SPUD:** 5 **DATE:** 02/04/07
PL: ATP 633P **0000 hrs Depth:** 581 m **LAST DEPTH:** 581 m **PROGRESS:** 0 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Monday 02/04/07 (0000 - 0600 hours) Run in hole to drill ahead.

PREVIOUS Operations: Spud Kewarra-01 @ 1830 hours 28/03/2007 – Drill to 581m. – 244mm. casing set at 578.3m.- Pressure test

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Christies-01 Diff H/L
Surficial / Winton Fm.	3.8	113.0	3.8	113.0		
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm			1091.5	-974.7		
Mooga - Murta Mbr.			1164.6	-1047.8		
Mooga - McKinlay Mbr.			1258.6	-1141.8		
Mooga - Namur Ss. Mbr.			1262.3	-1145.5		
Birkhead Fm.			1446.4	-1329.6		
Hutton Ss.			1461.8	-1345.0		
Toolachee Fm.			?	?		
Murteree Shale			1495.3	-1378.5		
Patchawarra Fm.			1518.4	-1401.6		
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
Fluorescence		
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 6 **DAYS FROM SPUD:** 6 **DATE:** 03/04/07
PL: ATP 633P **0000 hrs Depth:** 862 m **LAST DEPTH:** 581 m **PROGRESS:** 281 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Tuesday 03/04/07 (0000 - 0600 hours) Drilling at 938m.

PREVIOUS 24 Hours Operations: Run in hole to drill – Drill out – Pressure test – Drill to 862m.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed Depths (mRT)	Prognosed Depths (mSS)	Prognosis Diff H/L	Christies-01 Diff H/L
Recent Sediments	5.0	24.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm			1091.5	-974.7		
Mooga - Murta Mbr.			1164.6	-1047.8		
Mooga - McKinlay Mbr.			1258.6	-1141.8		
Mooga - Namur Ss. Mbr.			1262.3	-1145.5		
Birkhead Fm.			1446.4	-1329.6		
Hutton Ss.			1461.8	-1345.0		
Toolachee Fm.			?	?		
Murteree Shale			1495.3	-1378.5		
Patchawarra Fm.			1518.4	-1401.6		
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
590 – 875	SILTSTONE, moderate to dark grey, soft to firm, very argillaceous and grades to claystone, minor brown, hard, silty, calcareous stringers, rare carbonaceous specks and mica flakes.	Tr – 4 units 98:2
Fluorescence		

875 - 915	SILTSTONE with trace SANDSTONE and LIMESTONE. SILTSTONE, light to moderate grey, moderate grey-brown, soft, very argillaceous, calcareous in part with calcite / fossil shell fragments, rare carbonaceous specks and mica flakes. SANDSTONE, white to pale grey, very fine, sub-angular to sub-rounded, moderate sorted, lithic, glauconitic, feldspathic, moderate to abundant silty clay matrix, moderate to strongly calcareous, friable to moderately hard, very poor porosity. LIMESTONE, pale brown, hard, silty, minor fossil shell fragments.	1 – 3 units 95:3:2
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 7 **DAYS FROM SPUD:** 7 **DATE:** 03/04/07
PL: ATP 633P **0000 hrs Depth:** 1146 m **LAST DEPTH:** 862 m **PROGRESS:** 284 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Wednesday 04/04/07 (0000 - 0600 hours) Drilling at 1220m.

PREVIOUS 24 Hours Operations: Drill 862 - 1146m.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.			1258.6	-1141.8		
Mooga - Namur Ss. Mbr.			1262.3	-1145.5		
Birkhead Fm.			1446.4	-1329.6		
Hutton Ss.			1461.8	-1345.0		
Toolachee Fm.			?	?		
Murteree Shale			1495.3	-1378.5		
Patchawarra Fm.			1518.4	-1401.6		
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
915 – 956	SILTSTONE, moderate to dark grey to grey-brown, soft to firm, argillaceous, rare limestone / fossil shell fragments, rare silty glauconitic sandstone lenses, trace pyrite.	Tr – 3 units 100 C1
Fluorescence		

956 - 994	SILTSTONE with interbedded silty SANDSTONE. SILTSTONE, moderate to dark grey to grey-brown, soft to firm, argillaceous, rare limestone / fossil shell fragments, rare silty glauconitic sandstone lenses, trace pyrite. SANDSTONE, white to pale grey, very fine, sub-rounded, moderate to well sorted, lithic, glauconitic, feldspathic, trace mica, silty clay matrix, moderate calcite cement, friable to moderately hard, very poor porosity.	1 – 6 units 92:5:3
Fluorescence		

994 – 1092	SILTSTONE, dark grey to grey-brown, soft to firm, argillaceous, rare glauconitic sandstone lenses, trace light brown silty limestone.	3 - 14 units 92:5:3
Fluorescence		

Cadna Owie Fm.

1092 – 1141	SANDSTONE with interbedded SILTSTONE. SANDSTONE, white to off white, very fine to fine, occasionally medium and coarse, sub-rounded, moderate sorted, minor lithics, feldspar and carbonaceous material, trace mica flakes, moderate dispersive clay matrix, moderate to strongly calcareous, friable to moderately hard, poor porosity. SILTSTONE, light brown, firm, sub-fissile, micro-micaceous, carbonaceous specks; also dark brown to grey-brown, argillaceous and grades to claystone.	7 – 21 units 91:5:3:1
Fluorescence	1113 – 1119m. - 5% dull yellow fluorescence, no cut.	



DAILY GEOLOGICAL REPORT

Cadna Owie Fm.

1141 – 1168	SILTSTONE with trace LIMESTONE. SILTSTONE, light brown, light grey, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks, grades to very fine sandstone in part. LIMESTONE, white to pale yellowish white, cryptocrystalline.	3 – 5 units 97:3
Fluorescence		

Murta Fm.

1168 – 1180	Interbedded SANDSTONE and SILTSTONE. SANDSTONE, white, very fine to fine, occasionally medium, sub-rounded, moderate sorted, dispersive clay matrix, friable, fair porosity. SILTSTONE, light brown, light to dark grey, firm, sub-fissile, micro-micaceous, carbonaceous specks, moderate to strongly calcareous in part.	4 – 5 units 96:4
Fluorescence		

Murta Fm.

1180 – 1205	SANDSTONE with minor SILTSTONE. SANDSTONE, white, very fine, minor fm, sub-rounded, moderate sorted, rare mica flakes and lithics, moderate clay matrix, calcareous in part, weak silica cement, poor to fair with minor good porosity. SILTSTONE, light to dark grey, grey-brown, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks.	4 – 17 units 93:5:2
Fluorescence	Trace to 10% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 8 **DAYS FROM SPUD:** 8 **DATE:** 04/04/07
PL: ATP 633P **0000 hrs Depth:** 1315 m **LAST DEPTH:** 1146 m **PROGRESS:** 169 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Thursday 05/04/07 (0000 - 0600 hours) Wait on replacement kelly quill

PREVIOUS 24 Hours Operations: Drill 1146 - 1286m. – Change out washpipe in kelly swivel – Drill to 1316m. – Leak in kelly quill – Pull out of hole to replace kelly quill.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.	?? 1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1259.0	-1142.2	1262.3	-1145.5	3.3 H	
Birkhead Fm.			1446.4	-1329.6		
Hutton Ss.			1461.8	-1345.0		
Toolachee Fm.			?	?		
Murteree Shale			1495.3	-1378.5		
Patchawarra Fm.			1518.4	-1401.6		
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
1205 – 1231	SILTSTONE with interbedded SANDSTONE. SILTSTONE, light to moderate grey, light to moderate brown, grey-brown, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks, trace silty limestone laminae. SANDSTONE, white, very fine, occasional medium to coarse, sub-angular to sub-rounded, moderate sorted, trace mica flakes and lithics, moderate clay matrix, calcareous in part, moderate silica cement, friable to moderately hard, poor to fair porosity.	3 – 7 units 95:4:1
Fluorescence		

Murta Fm.

1231 - 1239	SANDSTONE, clear to translucent, predominantly medium to coarse, sub-rounded, moderate to well sorted, trace quartz overgrowths / crystal faces, trace mica flakes, loose, good porosity.	2 - 3 units 98:2
Fluorescence		

Murta Fm.

1239 – 1253	SANDSTONE with minor SILTSTONE. SANDSTONE, white to off white, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate white clay matrix, weak to moderate silica cement, friable to moderately hard, fair to good porosity; also abundant loose medium to coarse quartz grains. SILTSTONE, moderate grey to grey-brown, light brown, firm, sub-fissile, carbonaceous.	Tr - 13 units 98:2
Fluorescence		



DAILY GEOLOGICAL REPORT

McKinlay Mbr.

1253 – 1259	Interbedded SANDSTONE and SILTSTONE. SANDSTONE, clear to translucent, very fine to medium, occasionally coarse, sub-angular to sub-rounded, moderate sorted, minor dispersive clay matrix, loose, fair to good porosity. SILTSTONE, light to dark brown, firm, sub-fissile, micro-micaceous, carbonaceous specks, lithic and sandy in part; also moderate to dark grey, firm, argillaceous.	Tr – 3 units 97:3
Fluorescence		

Namur Ss.

1259 – 1315	SANDSTONE with minor SILTSTONE. SANDSTONE, translucent, fine to coarse, angular to sub-rounded, moderate sorted, trace quartz overgrowths / crystal faces, no visible matrix or cement, good porosity. SILTSTONE, moderate to dark grey, firm, sub-fissile, argillaceous; also light to moderate brown, firm, argillaceous, micro-micaceous, carbonaceous specks, rare lithics.	2 – 16 units 93:5:2
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 9 **DAYS FROM SPUD:** 9 **DATE:** 06/04/07
PL: ATP 633P **0000 hrs Depth:** 1409 m **LAST DEPTH:** 1315 m **PROGRESS:** 94 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Friday 06/04/07 (0000 - 0600 hours) Drilling at 1455m.

PREVIOUS 24 Hours Operations: Pick up replacement Kelly – Run in hole - Drill 1316 - 1409m.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.	?? 1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1259.0	-1142.2	1262.3	-1145.5	3.3 H	
Birkhead Fm.	1445.0	-1328.2	1446.4	-1329.6	1.4 H	
Hutton Ss.			1461.8	-1345.0		
Toolachee Fm.			?	?		
Murteree Shale			1495.3	-1378.5		
Patchawarra Fm.			1518.4	-1401.6		
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
1315 – 1445	SANDSTONE with trace SILTSTONE SANDSTONE, translucent, fine to coarse, moderate sorted, angular to sub-rounded, loose quartz grains, occasional quartz overgrowths / crystal faces, trace mica flakes, trace clay matrix and silica cement, good porosity. SILTSTONE, light to moderate brown, firm, argillaceous, minor mica flakes and carbonaceous material.	1 – 5 units 98:2:Tr
Fluorescence		

Birkhead Fm.

1445 - 1455	SILTSTONE, moderate to dark brown, moderate to dark grey-brown, firm, dispersive in part and grades to claystone, argillaceous, abundant carbonaceous material, micro-micaceous in part. Some SANDSTONE, coarse quartz grains, probable cavings.	3 - 13 units 80:12:6:2
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 10 **DAYS FROM SPUD:** 10 **DATE:** 06/04/07
PL: ATP 633P **0000 hrs Depth:** 1492 m **LAST DEPTH:** 1409 m **PROGRESS:** 83 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Saturday 07/04/07 (0000 - 0600 hours) Circulating sample at 1527m. in Patchawarra Fm.

PREVIOUS 24 Hours Operations: Drill to 1485m. – Trip for bit – Drill to 1492m.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.	?? 1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1259.0	-1142.2	1262.3	-1145.5	3.3 H	
Birkhead Fm.	1445.0	-1328.2	1446.4	-1329.6	1.4 H	
Hutton Ss.	1465.0	-1348.2	1461.8	-1345.0	-3.2 L	
Toolachee Fm.	?? 1497.0	-1380.2	?	?		
Murtee Shale	1503.0	-1386.2	1495.3	-1378.5	-7.7 L	
Patchawarra Fm.	1521.0	-1404.2	1518.4	-1401.6	-2.6 L	
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
1455 – 1456	SANDSTONE, white, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, weak to moderate silica cement, friable to moderately hard, poor to fair with occasional good porosity.	22 units 64:14:11:11
Fluorescence	100% moderate bright to bright yellow-white fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.	

Birkhead Fm.

1456 - 1464	<p>SILTSTONE with minor SANDSTONE and rare CLAYSTONE and COAL.</p> <p>SILTSTONE, light to moderate brown, moderate to dark grey-brown, soft to firm, argillaceous, dispersive, carbonaceous specks, occasionally grades to very fine argillaceous sandstone. SILTSTONE, moderate to dark brown to reddish brown, soft to firm, very argillaceous and grades to claystone, minor carbonaceous / coal material.</p> <p>SANDSTONE, translucent white, predominantly very fine to fine, some medium to coarse, sub-rounded, poor to moderate sorted, silty, moderate to abundant dispersive clay matrix, weak silica cement, friable to moderately hard, poor porosity.</p> <p>CLAYSTONE, white, soft, occasionally sandy with very fine quartz grains.</p> <p>COAL, very dark brown to black, dull to sub-vitreous lustre.</p>	6 - 19 units 73:14:10:3
Fluorescence	Tr-20% moderately bright yellow-white fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.	

Birkhead Fm.

1464 - 1465	SANDSTONE, translucent white, very fine to fine, sub-angular to sub-rounded, moderate sorted, minor white clay matrix, weak silica cement, friable to loose, fair to good porosity.	34 units 65:12:9:10:4
Fluorescence	60% very dull to minor moderate bright fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.	

Hutton Ss.

DAILY GEOLOGICAL REPORT

1465 - 1468	SANDSTONE, translucent, fine to coarse, angular to sub-angular, moderate sorted, loose quartz grains, trace quartz overgrowths / crystal faces. good porosity.	24 - 67 units 57:13:10:12:8
Fluorescence	No visible fluorescence but sand is clean and lacks matrix. Good gas show with heavies.	

Hutton Ss.

1468 - 1476	SANDSTONE, as for 1465 – 1468m.	12 - 30 units 77:12:7:4
Fluorescence	No visible fluorescence - Reasonable gas show with decreasing heavies	

Hutton Ss.

1476 - 1483	SANDSTONE, as for 1465 – 1468m.	6 - 12 units 80:13:7
Fluorescence	No visible fluorescence - decreasing gas & heavies	

Hutton Ss.

1483 - 1497	SANDSTONE, as for 1465 – 1468m.	3 - 9 units 94:6:Tr
Fluorescence	No visible fluorescence - decreasing gas & heavies	

Toolachee Fm. ?

1497 - 1503	<p>SILTSTONE with interbedded SANDSTONE.</p> <p>SILTSTONE, moderate to dark grey to grey-brown, firm, sub-fissile, abundant carbonaceous material and micro-laminae.</p> <p>SANDSTONE, translucent to white, very fine to fine, sub-angular to sub-rounded, moderate sorted, trace carbonaceous specks and mica flakes, trace quartz overgrowths / crystal faces, minor to moderate clay matrix, weak silica cement, friable, fair to good porosity.</p>	5 - 30 units 85:11:4
Fluorescence		

Murteree Shale

1503 - 1521	SILTSTONE, very dark grey/grey-brown to black, firm to moderately hard, sub-fissile to sub-blocky, abundant very fine dispersive carbonaceous material.	11 - 38 units 78:16:6
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 11 **DAYS FROM SPUD:** 11 **DATE:** 07/04/07
PL: ATP 633P **0000 hrs Depth:** 1586 m **LAST DEPTH:** 1492 m **PROGRESS:** 94 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Sunday 08/04/07 (0000 - 0600 hours) Run in hole with test tools.

PREVIOUS 24 Hours Operations: Drill to 1527m. – Circulate sample – Drill to 1586m. – Wiper trip - Pull out for DST#1 (conventional straddle) 1520 – 1536m.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.	?? 1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1259.0	-1142.2	1262.3	-1145.5	3.3 H	
Birkhead Fm.	1445.0	-1328.2	1446.4	-1329.6	1.4 H	
Hutton Ss.	1465.0	-1348.2	1461.8	-1345.0	-3.2 L	
Toolachee Fm.	?? 1497.0	-1380.2	?	?		
Murteree Shale	1503.0	-1386.2	1495.3	-1378.5	-7.7 L	
Patchawarra Fm.	1521.0	-1404.2	1518.4	-1401.6	-2.6 L	
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
1521 – 1523	Interbedded SANDSTONE and SILTSTONE. SANDSTONE, white to off white, very fine to fine, trace medium to very coarse, sub-angular to sub-rounded, moderate sorted, trace quartz overgrowths / crystal faces, minor to abundant clay matrix, weak silica cement, friable, poor to good porosity. SILTSTONE, moderate to dark grey, grey-black, firm, sub-fissile, argillaceous, carbonaceous.	20 - 30 units Background 10 78:16:6
Fluorescence	20% dull to moderately bright yellow-white fluorescence, instant blooming cut, moderate to thick yellow-white residue ring.	

Patchawarra Fm.

1523 - 1530	SANDSTONE, fine to medium, some coarse to very coarse, sub-angular to sub-rounded, poor to moderate sorted, rare quartz overgrowths / crystal faces, minor to moderate clay matrix, weak silica cement, friable, minor poor, predominantly fair to good porosity.	67 - 103 units Background 10 68:16:9:6:2
Fluorescence	100% moderately bright yellow-white fluorescence, instant blooming cut, moderate to thick yellow-white residue ring.	

Patchawarra Fm.

1530 - 1532	Interbedded COAL and SILTSTONE. COAL, black, dull to sub-vitreous lustre, striated and minor fractures with gas bleeding. SILTSTONE, moderate to dark grey, grey-black, firm, sub-fissile, argillaceous, carbonaceous.	107 - 190 units Background 20 87:10:2:1
Fluorescence		

Patchawarra Fm.

DAILY GEOLOGICAL REPORT

1532 - 1541	<p>SILTSTONE with thin SANDSTONE interbed 1536.5-37.0m. SILTSTONE, moderate to dark grey, light to moderate red-brown, firm, sub-fissile to sub-blocky, argillaceous, common carbonaceous material and laminae. SANDSTONE, translucent white, medium to very coarse, sub-rounded, moderate sorted, loose quartz grains, minor fine grained aggregates, good apparent porosity</p>	25 - 55 units Background 20 81:13:4:2 Sand @ 1537m. 102 units gas.
Fluorescence	5% moderately bright yellow-white fluorescence, instant blooming cut, moderate to thick yellow-white residue ring.	

Patchawarra Fm.

1541 - 1546	<p>SANDSTONE, translucent white to very pale translucent brown, fine to coarse, sub-angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, fair to good porosity. Gas spike @1543.5 of 115 units (85:11:3:1) probably from a thin coal not seen in samples.</p>	27 - 45 units Background 20 77:15:6:2
Fluorescence	40% dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring.	

Patchawarra Fm.

1546 - 1554	<p>Interbedded SANDSTONE and SILTSTONE. SANDSTONE, translucent white to very pale translucent brown, fine to coarse, sub-angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, fair to good porosity. - 40% dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring. SILTSTONE, light to moderate grey, dark grey, firm, argillaceous, very carbonaceous with common carbonaceous laminae, minor mica flakes.</p>	38 - 257 units Background 20 82:14:3:1 High gas from v carbonaceous coaly siltstone.
Fluorescence	5-25% dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring.	

Patchawarra Fm.

1554 - 1560	<p>SILTSTONE with minor SANDSTONE. SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous. SANDSTONE, off white, very fine to fine, occasionally medium, sub-angular to sub-rounded, moderate sorted, moderate to abundant clay matrix, moderate silica cement, moderately hard, poor porosity</p>	30 - 60 units Background 20 80:15:5
Fluorescence	Trace dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring.	

Patchawarra Fm.

1560 - 1567	<p>SANDSTONE with occasional SILTSTONE and rare COAL SANDSTONE, translucent, medium to very coarse, angular, moderate sorted, loose quartz grains, occasional quartz overgrowths / crystal faces, good porosity. SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous. COAL, black, dull to sub-vitreous lustre</p>	30 - 80 units Background 20 83:13:4
Fluorescence	Nil fluorescence	

Patchawarra Fm.

1567 - 1572	<p>SILTSTONE with SANDSTONE interbeds. SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous. SANDSTONE, pale translucent brown, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, moderate silica cement, moderately hard, poor to fair porosity.</p>	22 - 40 units Background 20 80:15:5
Fluorescence		

Patchawarra Fm.

1572 - 1577	<p>SANDSTONE, translucent, fine to medium, occasional coarse, sub-rounded, moderate sorted, loose quartz grains, good porosity.</p>	23 - 70 units Background 20 85:11:4
Fluorescence		



DAILY GEOLOGICAL REPORT

Patchawarra Fm.

1577 - 1586	<p>SANDSTONE with interbedded SILTSTONE and rare COAL.</p> <p>SANDSTONE, translucent, fine to very coarse, angular to sub-angular, poorly sorted, predominantly loose quartz grains, minor dispersive clay matrix, good porosity.</p> <p>SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, very carbonaceous and grades to coal in part.</p> <p>COAL, black, dull to sub-vitreous lustre, grades to very carbonaceous shale.</p>	<p>22 - 71 units</p> <p>Background 20</p> <p>87:10:3</p>
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 12 **DAYS FROM SPUD:** 12 **DATE:** 08/04/07
PL: ATP 633P **0000 hrs Depth:** 1586 m **LAST DEPTH:** 1492 m **PROGRESS:** 94 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Monday 09/04/07 (0000 - 0600 hours) Run in hole to 1586m. and prepare to drill ahead to TD.

PREVIOUS 24 Hours Operations: Run in hole with test tools - DST#1 (conventional straddle) 1520 – 1536m. – Flowed gas at rate to small to measure – Reversed out near full string (65 bbl) of slightly gas cut water, muddy at top – Water Rw = 1.6 @ 25C – Pull out of hole and lay out test tools. – Sample chamber had 4 litres water, no sign of oil.

Formation Tops (Wellsite Drilling)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1092.5	-975.7	1091.5	-974.7	-1.0 L	
Mooga - Murta Mbr.	1168.0	-1051.2	1164.6	-1047.8	-3.4 L	
Mooga - McKinlay Mbr.	?? 1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1259.0	-1142.2	1262.3	-1145.5	3.3 H	
Birkhead Fm.	1445.0	-1328.2	1446.4	-1329.6	1.4 H	
Hutton Ss.	1465.0	-1348.2	1461.8	-1345.0	-3.2 L	
Toolachee Fm.	?? 1497.0	-1380.2	?	?		
Murteree Shale	1503.0	-1386.2	1495.3	-1378.5	-7.7 L	
Patchawarra Fm.	1521.0	-1404.2	1518.4	-1401.6	-2.6 L	
Dullingari Gp.			1567.0	-1450.2		
Total Depth			1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
Fluorescence		

Patchawarra Fm.

Fluorescence	
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DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 13 **DAYS FROM SPUD:** 13 **DATE:** 09/04/07
PL: ATP 633P **0000 hrs Depth:** 1630 m **LAST DEPTH:** 1586 m **PROGRESS:** 44 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Tuesday 10/04/07 (0000 - 0600 hours) Log DLL/BHC/DEN-NEUT – Prepare for SWC.

PREVIOUS 24 Hours Operations: Run in hole to 1586m. Work past hammer head and push to side of hole - Drill ahead to TD.- Circulate - Pull out of hole – Rig up Schlumberger & run in hole.

Formation Tops (Wellsite Logs)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1089.0	-972.2	1091.5	-974.7	2.5 h	
Mooga - Murta Mbr.	1164.0	-1047.2	1164.6	-1047.8	0.6 h	
Mooga - McKinlay Mbr.	1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1258.5	-1141.7	1262.3	-1145.5	3.8 H	
Birkhead Fm.	1445.5	-1328.7	1446.4	-1329.6	0.9 H	
Hutton Ss.	1466.0	-1349.2	1461.8	-1345.0	-4.2 L	
Toolachee Fm.	1499.5	-1382.7	?	?		
Murteree Shale	1503.5	-1386.7	1495.3	-1378.5	-8.2 L	
Patchawarra Fm.	1517.0	-1400.2	1518.4	-1401.6	1.4 H	
Dullingari Gp.	1588.0	-1471.2	1567.0	-1450.2	-21.0 L	
Total Depth	1630.0	-1513.2	1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
1586 - 1594	SANDSTONE, translucent white, white to cream, fine to coarse, angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, poor porosity. SILTSTONE, moderate to dark grey, very carbonaceous and grades to coal in part.	4 – 9 Units 89:8:3
Fluorescence		

Dullingari Fm.

1594 – 1629	SANDSTONE, white with some pale pinkish brown, very fine to fine, angular to sub-rounded, moderate to well sorted, trace pyrite, abundant white dispersive clay matrix, weak to moderate and occasional strong silica cement, friable to moderately hard and hard where well cemented, poor porosity.	1 – 8 units 93:7
Fluorescence		

Dullingari Fm.

1629 – 1630	SILTSTONE, low grade metamorphosed pale bluish grey, hard, angular fracture, siliceous.	Tr – 1 92:8
Fluorescence		



DAILY GEOLOGICAL REPORT

WELL: Kewarra-01 **REPORT No.:** 14 **DAYS FROM SPUD:** 14 **DATE:** 10/04/07
PL: ATP 633P **0000 hrs Depth:** 1630 m **LAST DEPTH:** 1630 m **PROGRESS:** 0 m
LOCATION: Cooper Basin **Rig:** Hunt 2 **RT elevation:** 116.8 m **PTD:** 1600m.
Seismic: Gidgee 3D **In Line / X Line** 303 / 245 **Ground Level** 113.0 m
NEARBY WELLS: Gidgee-03 ~ 1.7 km. west / Munro-03 ~ 2.0km. – southeast

0600 OPS: Wednesday 11/04/07 (0000 - 0600 hours) Run 2 of SWC with Schlumberger – Begin Run in hole – Pull out of hole in preparation of P&A.

PREVIOUS 24 Hours Operations: Log DLL/BHC/DEN-NEUT – Shoot SWC – Commence running in hole – Pull out to run more SWC – Rig up Schlumberger and run in hole to shoot gun 2 of SWC.

Formation Tops (Wellsite Logs)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L	Diff H/L
Recent Sediments	3.8	113.0	3.8	113.0		
Winton Fm.	66.0	50.8				
Mackunda Fm			538.8	-422.0		
Oodnadatta Fm.			620.9	-504.1		
Coorikiana Ss.			953.3	-836.5		
Bulldog Shale			960.0	-843.2		
Cadna-owie Fm	1089.0	-972.2	1091.5	-974.7	2.5 h	
Mooga - Murta Mbr.	1164.0	-1047.2	1164.6	-1047.8	0.6 h	
Mooga - McKinlay Mbr.	1253.0	-1136.2	1258.6	-1141.8	5.6 H	
Mooga - Namur Ss. Mbr.	1258.5	-1141.7	1262.3	-1145.5	3.8 H	
Birkhead Fm.	1445.5	-1328.7	1446.4	-1329.6	0.9 H	
Hutton Ss.	1466.0	-1349.2	1461.8	-1345.0	-4.2 L	
Toolachee Fm.	1499.5	-1382.7	?	?		
Murteree Shale	1503.5	-1386.7	1495.3	-1378.5	-8.2 L	
Patchawarra Fm.	1517.0	-1400.2	1518.4	-1401.6	1.4 H	
Dullingari Gp.	1588.0	-1471.2	1567.0	-1450.2	-21.0 L	
Total Depth	1630.0	-1513.2	1600.0	-1483.2		

Interval (m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
Fluorescence		
Fluorescence		

BEACH PETROLEUM BIT RECORD

Well : **Kewarra- 1** Basin / Area : **Cooper Basin** Permit : **ATP 633-P** Field : **Kewarra**
 Location : Latitude : **28° 30' 40.79" S** G.L. **113.00** metres Spud Date: **28-Mar-07**
 Longitude : **140° 08' 48.96" E** Well Site Supervisor: **Gary Mogg** K.B. **116.80** metres T.D. Date: **9-Apr-07**
 Contractor : **Hunt Energy** Rig #: **2** Proposed TD: **1600** metres Rig Released Date: **12-Apr-07**

PUMPS											MUD TYPE																	
No.	Type	Stroke (in)	Liner (in)	Output (gps)	Section	Dev	Interval	Type	Wt																			
1	TSM 500 Duplex	16.00	6.00	6.94	Surface	0.50°	0m to 581m	Spud	9.10																			
2	CE DB 550 Duplex	16.00	6.00	6.94	Main	1.50°	581m to 1630m	KCL Polymer	9.20																			
Bit No.	Run No.	Size (in)	Make	Type	IADC Code	Serial No.	# of nozzles Size- 32nds	Motor Y / N	Shock-Sub Serial No.	Depth Out	Metres	Hours	ROP (m/hr)	Accum Hours	Bit Grading								WOB		RPM		Press (psi)	Pump (gpm)
															I	O	D	L	B	G	O	R	Mn	Mx	Mn	Mx		
1	R4	12.25	Smith	XR117	117	MY0188	4 14	N	NA	581	581	25	23.2	25	4	4	WT	A	E	I	NO	TD	2	20	90	140	1000	550
2	2	8.5	Security	EBXSCISC	117	10802607	3 13	N	NA	1485	904	69	13.1	94	5	5	WT	A	E	3	ER	TQ	12	25	80	130	1150	340
3	R2	8.5	Reed	TD43APDH	437	L45051	3 14	N	NA	1630	145	17	8.5	111	6	3	BT	S	E	I	LN	TD	20	25	80	100	900	406

Comments : Pulled Bit No-2 at 1315mtrs with Washed Quill in Kelly, Rerun Bit No-2 and drilled to 1485mtrs and pulled due to high Torque, 5 - 4 - 3/16".
Bit No-3 went in at 1485 mtrs with 14hours previously run on Rig-3.
Mill on Junk with Bit No-3 and lost 1 nozzle and damaged another, Bit is not Rerunable.

4 Jikara Drive
Glen Osmond SA 5064
Phone : 61 8 83387266
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ABN : 13 211 314 811



DRILLING FLUID SUMMARY

FOR : BEACH PETROLEUM

WELL : KEWARRA 1

ATP 752P – WOMPI BLOCK
EROMANGA BASIN
QUEENSLAND

Prepared by : Dean Perkins
Andre Skujins

Date : April 2007

Operator : Beach Petroleum
Well : Kewarra # 1
Rig : Hunt Rig 2
Spud : 28th March 2007



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1. Summary of Operations
2. Observations, Recommendations & Well Analysis
3. Material Costs & Consumption Analysis
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5. Fluid Properties Summary
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7. Graphs
8. Calliper Data
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Operator : Beach Petroleum
Well : Kewarra # 1
Rig : Hunt Rig 2
Spud : 28th March 2007



1. SUMMARY OF OPERATIONS

Kewarra-1 was spudded at 18:30 hours on the 28th March 2007 using Hunt Energy Rig-2 and reached a total depth of 1,630m on the 9th April 2007.

The 16" Conductor was set at 9m. The Drill Water was fresh with chlorides of 2,700 and a total hardness of 100 mg/L.

HOLE SIZE : 12¹/₄"
MUD TYPE : Gel Spud Mud
INTERVAL : 0 – 581 m
CASING : 9-5/8" @ 578 m

The rig tanks were filled with water and approximately 40 bbls of 18 ppb Gel Spud Mud was mixed in the slug pit and used to drill the rat and mouse holes. Mixed another 190 bbls in the Suction and Slug Pits and spudded the well. For surface hole 84/84/84 mesh screens were fitted to both shale shakers.

The well was spudded and drilling continued (slowly initially) with the thick gel spud mud. Once the stabilisers were below the conductor the flow rate was increased. The hole was sandy and was not making mud so we had to mix another 3 Slug Pits of 22 ppg Gel to maintain volume and viscosity and keep up the Gel content of the mud until formation clays were encountered. When we started drilling clays the entire mud system was used by incorporating the remainder of the water filled tanks into the spud mud one tank at a time, this diluted and thinned the mud back. As drilling continued, native clays brought the viscosity back up.

Water was added to maintain volume and control the viscosity, and KCl was added via pre-mixes in the slug pit. By the time TD at 581 m was reached, the mud weight had been brought up to 9.4 ppg with additions of Barite as per the program.

A wiper trip was conducted to surface, and the hole was in good condition. The hole was circulated clean, a slug was pumped, and the pipe was pulled out ready to run casing. The 8" drill collars were laid down.

9-5/8" surface casing was then run and cemented at 578 m, with no problems and full returns of cement to surface. The cement was displaced with Spud Mud.

Operator : Beach Petroleum
Well : Kewarra # 1
Rig : Hunt Rig 2
Spud : 28th March 2007



HOLE SIZE : 8½"
MUD TYPE : KCI PHPA Brine KCI Polymer
INTERVAL : 581 – 800 m 800 m – 1,630 m (TD)

All tanks were dumped, cleaned, and filled with water. KCI was added to achieve a concentration of 4%.

After the BOP's had been nipped up and pressure tested, an 8½" PDC bit was made up and run in the hole. The hole was displaced to brine while drilling out the cement, float and shoe track, and after drilling 3m of formation an LOT was conducted. Drilling then continued with KCI Brine.

The original shaker was dressed with 84 mesh screens, and the new shaker with 110 mesh screens.

Displacing while drilling cement resulted in very high pH and hardness and the brine was treated with Citric Acid to reduce the pH, and Soda Ash to try and reduce the hardness.

The KCI content was maintained at about 4% with the addition of KCI in the form of brine premixes. The desilter and desander were run from time to time with the aim at this stage to keep the solids low. The sand trap was dumped to remove sand and solids periodically. Surveys were run every 150m.

About 200m before entering the Cadna Owie formation, at the 800m "Mud Up" point, PAC-R was added to the system to reduce the fluid loss and increase the viscosity. And from 800 m Pac-R was included in the KCI premixes, which were bled into the system. Further additions of PAC-R and Xanthan Gum were then made directly into the active system to get the mud in condition to weigh up with Barite. The mud weight was then increased to 8.9 ppg with Barite before entering the Cadna Owie formation.

The mud weight was then maintained at 9.0-9.2 ppg through to TD by water dilution, selective use of the desilter, and dumping the sand trap as required.

Once the Fluid Loss was below 8 cc's Xanthan Gum additions were used to build and maintain the Yield Point. Thereafter, the rheology was maintained with PAC-R or XCD Polymer mixed as required in premixes, or added directly to the active system if needed.

Caustic Soda was added to maintain the pH around 8.5-9.5. Sodium Sulphite oxygen scavenger was added as a corrosion control agent. Biocide-G was added to prevent bio-degradation of the polymers.

From this point on the desander was not run very much, but the desilter was run most of the time. With the slower flow rate (319 gpm) than on previous wells we were able to run 140 mesh screens on one shaker with 110 mesh screens on the

Operator : **Beach Petroleum**
Well : **Kewarra # 1**
Rig : **Hunt Rig 2**
Spud : **28th March 2007**



other. This improved the solids control, and the addition of premixes to maintain volume also helped. Water was recycled from the sump on two occasions but it resulted in a large increase in hardness and solids in the mud, so it was discontinued and we carried on with fresh water to avoid burning up the polymers.

At 1,315 m there was a washout in the quill on the swivel. The hole was circulated clean, a slug was pumped, the pipe was pulled, and the swivel was replaced.

After running back in and drilling resumed it was possible to run all of the mud over one shaker with 140 mesh screens.

A bit trip was made at 1,485 m. Controlled drilling continued to 1,586 m when a 17 stand wiper trip was made. The hole was circulated clean, a slug pumped, a Hi-Vis Pill was spotted on bottom, and the bit was pulled in order to conduct a DST.

After the DST was conducted and the contents of the pipe reversed out, a slug was pumped and the tool pulled out of the hole. While rigging down the DST a small hammer head fell down the hole. This was worked on at 1,586 m and drilling continued to 1,592 m when the junk was worked on again, but this time it was OK and drilling continued on to TD at 1,630 m.

After circulating the hole clean again, a slug was pumped and we pulled out of the hole for wireline logging with Schlumberger.

Once logging was completed, it was decided to abandon the well. The drill collars were laid down, and we ran in with open ended drill pipe and set cement plugs as per the program.

Operator : Beach Petroleum
Well : Kewarra # 1
Rig : Hunt Rig 2
Spud : 28th March 2007



2. OBSERVATIONS, RECOMMENDATIONS AND WELL ANALYSIS

Kewarra-1 was drilled to a total depth of 1,630 m for a mud cost of \$38,693.92 or \$23.74 per metre. The well was drilled by Hunt Rig-2, problem free from a mud viewpoint.

Make up water, which was sourced from a local creek, was of good quality.

The rigs solids control equipment worked well. The linear motion shaker worked well, the desander and desilter put out underflows indicating that the equipment was working fairly well.

12 $\frac{1}{4}$ " Surface Hole

This 581 m section was drilled for a mud cost of \$6,304.70 or \$10.85 per metre.

A gel based spud mud was used to spud the well. Later in the interval, KCl was added and towards casing point, barite was added to increase the mud weight to 9.4 ppg. Whether either or both measures were necessary is debateable, however, this interval was drilled virtually problem free from a mud viewpoint, and the hole was very stable and hole conditions were good. This mud system worked very well.

8 $\frac{1}{2}$ " Production Hole

This 1,049 m section was drilled for a mud cost of \$30,807.72 or \$29.77 per metre.

After displacing the hole to brine and drilling out the cement and shoe, a simple 4% KCl brine was used to drill the top section to about 800 m. The desilter and desander were run as much as possible while adding fresh brine premixes to maintain volume, control solids, and to maintain the KCl concentration at about 4%.

At 800 m, mudding up commenced. A high concentration of Pac-R was added to the KCl premix, to lower the fluid loss to below 8 cc's and increase the yield point.

When the fluid loss had come down to spec, XCD Polymer was used to maintain the yield point and Pac-R was used to maintain fluid loss control. By the time the Cadna-Owie was reached, the mud was within program specifications and the mud weight was above 8.9 ppg as required. The mud weight was then maintained between 9.0 to 9.2 ppg, finally ending up at 9.2 ppg. The lower flow rates on this well made it easier to control solids as finer shaker screens were able to be run.

Operator : **Beach Petroleum**
Well : **Kewarra # 1**
Rig : **Hunt Rig 2**
Spud : **28th March 2007**



Overall, a change to the basic mud system is not required, simply because it worked very well and achieved its aims of helping drill the hole cheaply, quickly, and efficiently. Of note however is that cement can be drilled out with the brine system and the high hardness and pH do not have to be lowered until polymers are added, by which stage the pH will have dropped of its own accord.



3. INTERVAL COSTS

Product			12-1/4" Surface Hole			8-1/2" Production Hole			Cementing & Completion			Total Well Consumption		
	Interval :		0 - 581 m			581 m - 1630 m						0 - 1630 m (TD)		
	Cost	Unit Size	Used	Cost	%Cost	Used	Cost	%Cost	Used	Cost	%Cost	Used	Cost	%Cost
AMC Biocide G	\$ 198.03	25 lt				9	\$1,782.27	5.8%				9	\$1,782.27	4.6%
AMC Pac R	\$ 162.87	25 kg				41	\$6,677.67	21.7%				41	\$6,677.67	17.3%
Aus-Gel	\$ 10.90	25 kg	134	\$1,460.60	23.2%							134	\$1,460.60	3.8%
Baryte	\$ 12.50	25 kg	150	\$1,875.00	29.7%	142	\$1,775.00	5.8%				292	\$3,650.00	9.4%
Caustic Soda	\$ 57.10	25 kg				2	\$114.20	0.4%				2	\$114.20	0.3%
Citric Acid	\$ 76.37	25 kg				20	\$1,527.40	5.0%				20	\$1,527.40	3.9%
Lime	\$ 12.30	25 kg	1	\$12.30	0.2%	2	\$24.60	0.1%				3	\$36.90	0.1%
PHPA	\$ 126.16	25 kg				14	\$1,766.24	5.7%				14	\$1,766.24	4.6%
Potassium Chloride (Tech)	\$ 22.40	25 kg	132	\$2,956.80	46.9%	352	\$7,884.80	25.6%				484	\$10,841.60	28.0%
SAPP	\$ 71.80	25 kg							3	\$215.40	13.6%	3	\$215.40	0.6%
Soda Ash	\$ 21.01	25 kg				29	\$609.29	2.0%				29	\$609.29	1.6%
Sodium Sulphite	\$ 36.50	25 kg				23	\$839.50	2.7%				23	\$839.50	2.2%
Wildcat 420	\$ 1,366.10	200 lt							1	\$1,366.10	86.4%	1	\$1,366.10	3.5%
Xan-Bore	\$ 371.75	25 kg				21	\$7,806.75	25.3%				21	\$7,806.75	20.2%
Totals :				\$6,304.70	100.0%		\$30,807.72	100.0%		\$1,581.50	100.0%		\$38,693.92	100.0%
Cost per Metre :				\$10.85			\$29.37						\$23.74	



4. MATERIALS RECONCILIATION

PRODUCT	UNIT	From "previous well"	Starting Balance	Written off Damaged	TOTAL Received	TOTAL Used	FINAL BALANC E
AMC Biocide G	55 lb	2	2		10	9	1
AMC Defoamer	55 lb	3	3		3		3
AMC Pac R	55 lb	3	3		99	41	58
AMC PHPA	55 lb	36	36		36	14	22
Aus-Gel (Aust)	55 lb		168		168	134	34
Baryte	55 lb	660	660		660	292	368
Caustic Soda	55 lb	4	4		20	2	18
Citric Acid	55 lb	20	20		20	20	
Desco	25 lb	19	19		19		19
Kwikseal F	40 lb	31	31		31		31
Lime	44 lb	3	3		3	3	
Potassium Chloride	55 lb	90	258		1014	484	530
Rod-Free	55 lb	4	4		4		4
Sapp	55 lb	8	8		8	3	5
Soda Ash	55 lb	5	5		29	29	
Sodium Sulphite	55 lb	15	15		55	23	32
Wildcat 420	55 lb	5	5		5	1	4
Xanthan Gum	55 lb	44	44		44	21	23
Xtra-Sweep	12 lb	8	8		8		8



5. FLUID PROPERTIES SUMMARY

Date	Mud Type	Depth	Weight	Vis	PV	YP	Gels		Filtrate		Solids			pH	Pf	Mf	Cl-	Ca++	K+	KCl	
							10 sec	10 min	API	Cake	Solids	Water	Sand								MBT
28-Mar-07	Gel Spud Mud	0	8.60	48					NC		1.7	98.3		18.0	9.0	0.28	1.84	2,700	100		
		116	8.60	40	8	14	6	9	NC		1.7	98.3	0.8	18.0	9.0	0.28	1.84	2,700	100		
29-Mar-07	Gel Spud Mud	247	9.10	48	6	38	18	22	NC		3.3	96.7	0.3	18.0	8.5	0.10	1.00	9,000	300	10,808	2.0
		511	9.40	50	9	64	22	24	NC		5.5	94.5	0.3	16.0	8.5	0.10	0.70	16,000	600	18,914	3.5
30-Mar-07	Gel Spud Mud	531	9.40	50	9	57	20	24	NC		5.2	94.8	0.8	16.0	8.5	0.10	0.60	16,000	600	18,914	3.5
		581	9.10	36	4	24	9	10	NC		3.1	96.9	0.8	16.0	8.5	0.10	0.50	15,000	520	18,914	3.5
31-Mar-07	Gel Spud Mud	581	9.10	36	4	24	8	10	NC		3.1	96.9	0.8	15.0	8.5	0.10	0.50	15,000	520	18,914	3.5
		581	9.10	36							1.2	98.8									
1-Apr-07	KCL Brine	581	8.30	Water					NC		0	100.0			9.0	0.28	1.80	2,700	100		
		581	8.60	Brine						NC		0.6	99.4			8.5	0.15	1.00	20,000		
2-Apr-07	KCL Polymer	584	8.60	Brine					NC		0.6	99.4			12.0			20,000	2000	21,616	4.0
		862	8.80	34	8	9			NC		2.0	98.0	TR		10.0	0.40	2.60	21,000	800	21,616	4.0
3-Apr-07	KCL Polymer	1014	9.00	38	9	7		1	6.8	1	3.4	96.6	TR		10.0	0.20	2.80	19,000	2000	21,616	4.0
		1146	9.10	40	11	13	2	7	6.8	1	4.1	95.9	TR	10.0	10.0	0.20	2.80	19,000	1800	21,616	4.0
4-Apr-07	KCL Polymer	1274	9.20	38	10	8	1	8	7.8	1	4.9	95.1	TR	10.0	10.0	0.20	2.80	20,000	1800	21,616	4.0
		1315	9.20	36	8	9	1	7	8.0	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	21,000	1800	21,616	4.0
5-Apr-07	KCL Polymer	1315	9.10	35	8	9	1	6	6.8	1	4.2	95.8	TR	10.0	9.0	0.20	2.00	22,000	1800	21,616	4.0
		1409	9.10	41	15	10	1	3	6.2	1	4.2	95.8	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
6-Apr-07	KCL Polymer	1485	9.10	38	12	14	1	3	6.4	1	4.2	95.8	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
		1492	9.10	38	12	14	1	3	6.4	1	4.2	95.8	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
7-Apr-07	KCL Polymer	1576	9.00	38	12	14	1	4	6.2	1	3.5	96.5	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
		1586	9.20	41	11	16	3	7	6.0	1	4.9	95.1	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
8-Apr-07	KCL Polymer	1586	9.20	41	11	16	3	7	6.0	1	4.9	95.1	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
		1586	9.20	41	11	16	3	7	6.0	1	4.9	95.1	TR	10.0	10.0	0.20	2.50	22,000	1600	21,616	4.0
9-Apr-07	KCL Polymer	1586	9.20	35	10	12	2	7	6.4	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	21,000	1500	21,616	4.0
		1630	9.20	38	10	14	3	7	6.8	1	4.9	95.1	TR	10.00	9.0	0.20	2.00	20,000	1500	21,616	4.0
10-Apr-07	KCL Polymer	1630	9.20	38	10	14	3	7	6.8	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	20,000	1500	21,616	4.0
		1630	9.20	38	10	14	3	7	7.0	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	20,000	1500	21,616	4.0
11-Apr-07	KCL Polymer	1630	9.20	38	10	14	3	7	6.8	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	20,000	1500	21,616	4.0
		1630	9.20	38	10	14	3	7	7.0	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	20,000	1500	21,616	4.0
12-Apr-07	KCL Polymer	1630	9.20	38	10	14	3	7	6.8	1	4.9	95.1	TR	10.0	9.0	0.20	2.00	20,000	1500	21,616	4.0



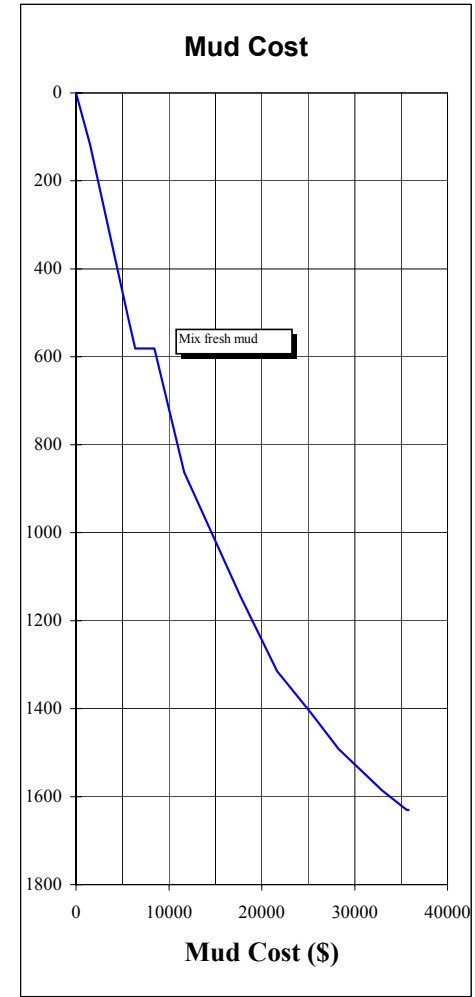
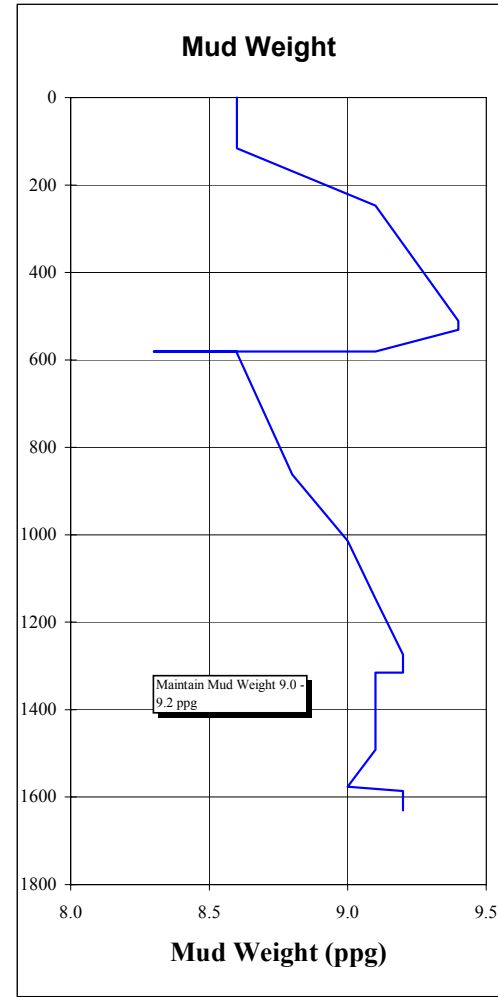
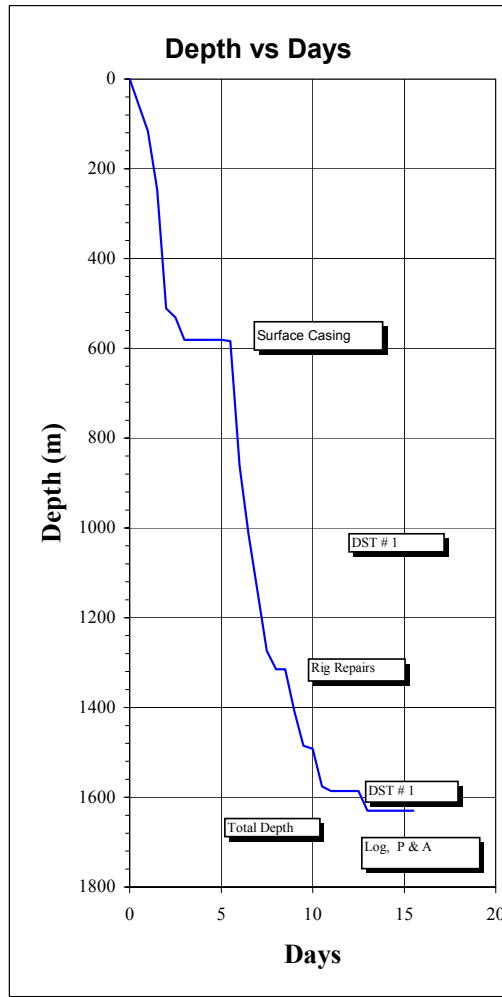
6. Mud Volume Analysis

Date	Hole Size	Interval		Mud Type	Fluid Built & Received					Fluid Disposed					Summary				
		From	To		Fresh Premix	Sump Premix	Direct Recirc	Water	Other	De-sander	De-silter	Centrifuge	Down-hole	Dumped	Other	Initial	Received	Disposed	Final
28-Mar-07	12-1/4"	0	116 m	Spud Mud	270							104					270	104	166
29-Mar-07	12-1/4"	116 m	511 m	Spud Mud	360			40		11	34	4			166	400	50	516	
30-Mar-07	12-1/4"	511 m	581 m	Spud Mud	80			80		4		52		20	516	160	77	599	
31-Mar-07	12-1/4"	581 m	581 m	Spud Mud								0	453		599		453	146	
Sub Total					710			120		16	34	161	453	20		830	684		
1-Apr-07	8-1/2"	581 m	581 m	KCl Polymer	347										146	347		493	
2-Apr-07	8-1/2"	581 m	862 m	KCl Polymer	40					4		8			493	40	13	520	
3-Apr-07	8-1/2"	862 m	1146 m	KCl Polymer	40		80			3	23	37			520	120	63	578	
4-Apr-07	8-1/2"	1146 m	1315 m	KCl Polymer	240					5	46	37	95		578	240	183	635	
5-Apr-07	8-1/2"	1315 m	1409 m	KCl Polymer	160					3	29	38	100		635	160	170	625	
6-Apr-07	8-1/2"	1409 m	1492 m	KCl Polymer	80			20		3	9	26	24		625	100	62	664	
7-Apr-07	8-1/2"	1492 m	1586 m	KCl Polymer	80					3	3	34	33		664	80	73	671	
8-Apr-07	8-1/2"	1586 m	1586 m	KCl Polymer								3			671		3	668	
9-Apr-07	8-1/2"	1586 m	1630 m	KCl Polymer					37			0			668	37	0	705	
10-Apr-07	8-1/2"	1630 m	1630 m	KCl Polymer								5			705		5	700	
Sub Total					987		80	57		22	108	188	252			1124	570		
Well Total					1697		80	177		38	143	349	705	20		1954	1254		

Dilution Factors			
	Interval Length	Dilution Vol	Dilution Factor
12¼" Surface Hole	581 m	560 bbls	1.0 bbls/m
8½" Hole	1049 m	777 bbls	0.7 bbls/m

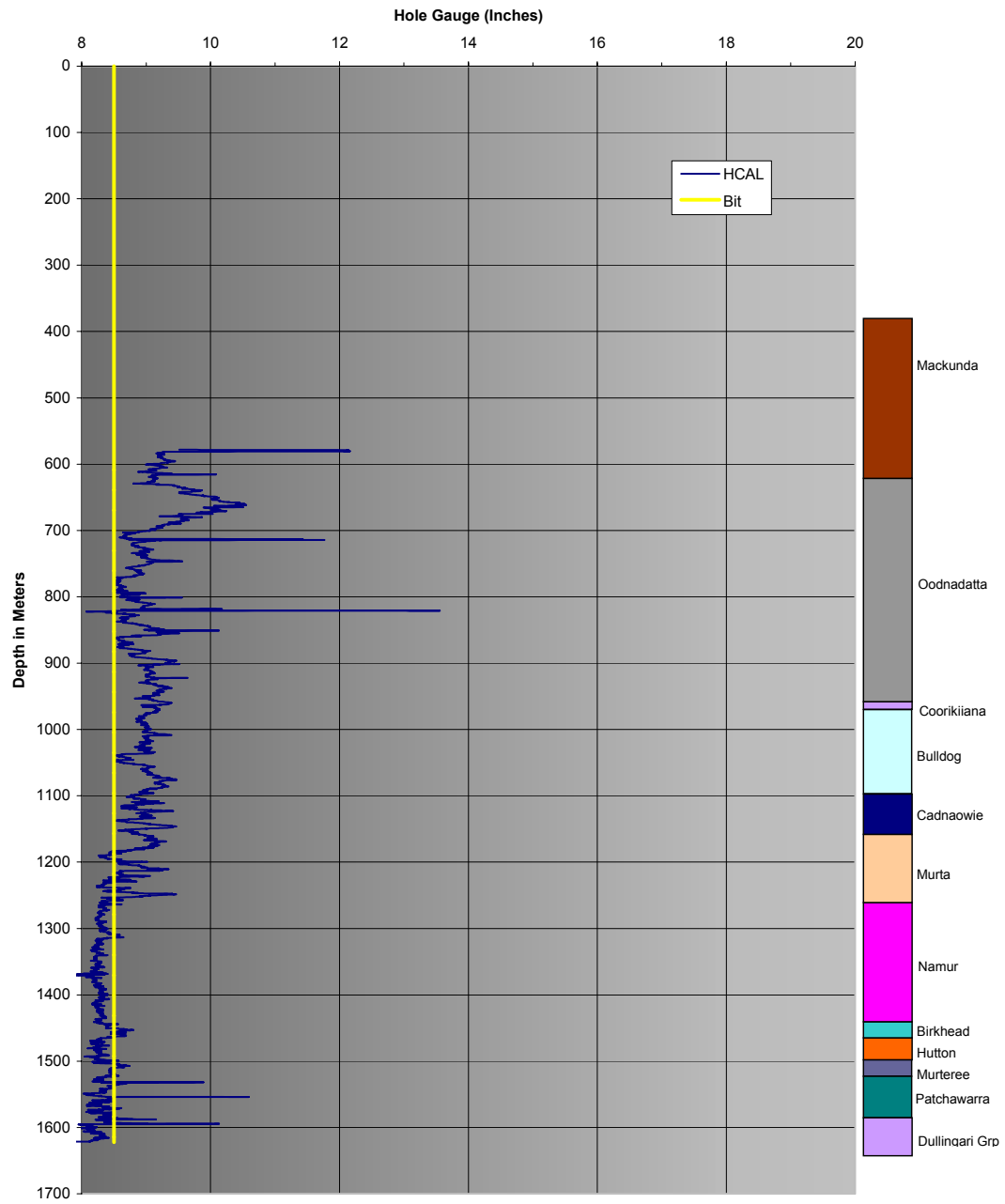


7. Graphs





8. Calliper Log Data





9. DAILY DRILLING FLUIDS REPORTS

DRILLING FLUID REPORT



Report #	1	Date :	28-Mar-2007
Rig No	2	Spud :	28-Mar-2007
Depth	to 116		Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Ron Bown	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA								
BIT SIZE	TYPE	14	14	14	16	SURFACE SET @	31	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)			
12.25	Smith XR117	14				9	M		46	120	6	X	16	500	psi	
DRILL PIPE SIZE	TYPE	Length		INTERMEDIATE SET @		ft		TOTAL CIRCULATING VOL.		PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)		
4.5	#	10		Mtrs		M		166		TSM-500		95 %		3		
DRILL PIPE SIZE	TYPE	Length		PRODUCTION. or LINER Set @		ft		IN STORAGE		BBL/STK		STK / MIN		TOTAL CIRC. TIME (min)		
4.50	HW	Mtrs		M						0.1600		83		13		
DRILL COLLAR SIZE (")	Length		MUD TYPE		Gel Spud Mud				BBL/MIN		GAL / MIN		ANN VEL. DP		100	
6.25	8.00		83		22		Mtrs		12.62		530		(ft/min) DCs		117 151 Lam	

SAMPLE FROM				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS											
TIME SAMPLE TAKEN				Pit		16:00		24:00		Mud Weight		8.6-9.4		API Filtrate		NC		HPHT Filtrate	
DEPTH (ft) - (m)				Metres		116				Plastic Vis		ALAP		Yield Point		pH		8.5-10	
FLOWLINE TEMPERATURE				°C						KCl		PHPA		Sulphites		OBSERVATIONS			
WEIGHT				ppg / SG		8.60		1.032		8.60		1.032		Mixed 40bbls Gel Spud Mud in slug pit and used this to drill rat and mouse holes. Mixed another 190bbls Gel Spud Mud in suction pit and slug pit and spudded well. Hole not making mud drilling mostly sand so formation is taking some mud and using up the gel causing the viscosity to drop off. So mixed another 2 slug pits of Gel Spud Mud at 22ppb and added to system to maintain volume and gel content in mud. All the other mud pits are full of water ready for when formation clays are encountered.					
FUNNEL VISCOSITY (sec/qt) API @				°C		48		40											
PLASTIC VISCOSITY cP @				°C		8													
YIELD POINT (lb/100ft²)						14													
GEL STRENGTHS (lb/100ft²) 10 sec/10 min						6		9											
RHEOLOGY 0 600 / 0 300						30		22											
RHEOLOGY 0 200 / 0 100																			
RHEOLOGY 0 6 / 0 3																			
FILTRATE API (cc's/30 min)						NC		NC											
HPHT FILTRATE (cc's/30 min) @				°F															
CAKE THICKNESS API : HPHT (32nd in)																			
SOLIDS CONTENT (% by Volume)						1.7		1.7											
LIQUID CONTENT (% by Volume) OIL/WATER						98.3		98.3											
SAND CONTENT (% by Vol.)						0.75													
METHYLENE BLUE CAPACITY (ppb equiv.)						18.0		18.0											
pH						9.0		9.0											
ALKALINITY MUD (Pm)																			
ALKALINITY FILTRATE (Pf / Mf)						0.28		1.84											
CHLORIDE (mg/L)						2,700		2,700											
TOTAL HARDNESS AS CALCIUM (mg/L)						100		100											
SULPHITE (mg/L)																			
K+ (mg/L)																			
KCl (% by Wt.)																			
PHPA (ppb)																			
ECD (ppg)																			
OPERATIONS SUMMARY																			
Rig Up. Drill Rat and Mouse hole with spud mud in slug pit. Lay out mud motor. Make up BHA.																			
Spudded Kewarra-1 at 18:30 hours, 28th March 2007.																			
Drill and survey to 116m. Change wash pipe and repair geograph.																			
All 84mesh shaker screens fitted are pre-used.																			

Mud Accounting (bbls)						Solids Control Equipment					
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)	270	Desander		INITIAL VOLUME	0	Centrifuge		Desander	2	Shaker #1	84/84/84
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED	270	Degasser		Desilter	10	Shaker #2	84/84/84
Drill Water		Downhole	104			- FLUID LOST	104				
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE							
Other (eg Diesel)		Other		FINAL VOLUME	166			Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)	
TOTAL RECEIVED	270	TOTAL LOST	104			Desander		0			
						Desilter		0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
Aus-Gel (Aust)	\$ 13.20	168		113	55	\$ 1,491.60	%	PPB	Jet Velocity	282		
							High Grav solids		Impact force	666		
							Total LGS	1.7	HHP	190		
							Bentonite	2.0	HSI	1.6		
							Drilled Solids	-0.3	Bit Press Loss	615		
							Salt	0.2	CSG Seat Frac Press			
							n @ 24:00 Hrs	0.45	Equiv. Mud Wt.			
							K @ 24:00 Hrs	6.91	Max Pressure @ Shoe :			
							DAILY COST			CUMULATIVE COST		
							\$1,491.60			\$1,491.60		

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same.

DRILLING FLUID REPORT



Report #	2	Date :	29-Mar-2007
Rig No	2	Spud :	28-Mar-2007
Depth	116	to	511
			Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy	
REPORT FOR	Ron Bown	REPORT FOR	Damien Baldwin	
WELL NAME AND No	Kewarra-1	FIELD	LOCATION	STATE
		ATP 633P	Cooper Basin	Queensland

DRILLING ASSEMBLY		JET SIZE			CASING		MUD VOLUME (BBL)		CIRCULATION DATA									
BIT SIZE	TYPE	14	14	14	16	SURFACE SET @	31	ft	HOLE	PITS	PUMP SIZE			CIRCULATION PRESS (PSI)				
12.25	Smith XR117	14				9	M		221	295	6	X	16	Inches	1350			
DRILL PIPE SIZE	TYPE	Length			INTERMEDIATE SET @	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)			15				
4.5		284			Mtrs	M	516		TSM-500	95 %								
DRILL PIPE SIZE	TYPE	Length			PRODUCTION. or LINER Set @	ft	IN STORAGE		BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)			39				
4.50	HW	37			Mtrs	M			0.1600	88								
DRILL COLLAR SIZE (")		Length			MUD TYPE			BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP	DCs	106	Lam	124			
6.25	8.00	168			22	Mtrs	Gel Spud Mud		13.38	562				160		Lam		

SAMPLE FROM		Pit		MUD PROPERTY SPECIFICATIONS			
TIME SAMPLE TAKEN		12:00	24:00	Mud Weight	8.6-9.4	API Filtrate	NC
DEPTH (ft) - (m)	Metres	247	511	Plastic Vis	ALAP	Yield Point	pH
FLOWLINE TEMPERATURE	$^{\circ}C$ / $^{\circ}F$			KCl		PHPA	Sulphites
WEIGHT	ppg / SG	9.10	1.092	OBSERVATIONS			
FUNNEL VISCOSITY (sec/qt) API @	$^{\circ}C$	48	50	Mixed 1 slug pit gel to maintain viscosity while drilling sands. Started drilling clays and viscosity started to increase so switched to circulating through full pit system to incorporate all the water, and started adding KCL via premixes in the slug pit. Running desander and desilter until discharge is only mud. Added barite to bring mud weight up to 9.4ppg as per the program. 1 sack of lime used in camp cess pit.			
PLASTIC VISCOSITY cP @	$^{\circ}C$	6	9				
YIELD POINT (lb/100ft ²)		38	64				
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		18	22				
RHEOLOGY θ 600 / θ 300		50	44				
RHEOLOGY θ 200 / θ 100							
RHEOLOGY θ 6 / θ 3							
FILTRATE API (cc's/30 min)		NC	NC				
HPHT FILTRATE (cc's/30 min) @	$^{\circ}F$						
CAKE THICKNESS API : HPHT (32nd in)							
SOLIDS CONTENT (% by Volume)		3.3	5.5				
LIQUID CONTENT (% by Volume) OIL/WATER		96.7	94.5				
SAND CONTENT (% by Vol.)		0.25	0.25				
METHYLENE BLUE CAPACITY (ppb equiv.)		18.0	16.0				
pH		8.5	8.5				
ALKALINITY MUD (Pm)							
ALKALINITY FILTRATE (Pf / Mf)		0.10	1.00				
CHLORIDE (mg/L)		9,000	16,000				
TOTAL HARDNESS AS CALCIUM (mg/L)		300	600				
SULPHITE (mg/L)							
K+ (mg/L)		10,500	18,375				
KCl (% by Wt.)		2.0	3.5				
PHPA (ppb)							
ECD (ppg)							

Mud Accounting (bbls)				Solids Control Equipment									
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	360	Desander	11	INITIAL VOLUME	166	Centrifuge		Desander	2	8	Shaker #1	84/84/84	18
Premix (recirc from sump)		Desilter	34	+ FLUID RECEIVED	400	Degasser		Desilter	10	8	Shaker #2	84/84/84	18
Drill Water	40	Downhole	4			- FLUID LOST	50	Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)	
Direct Recirc Sump		Dumped				+ FLUID IN STORAGE		Desander		12.8	1.00		
Other (eg Diesel)		Other		FINAL VOLUME	516	Desilter		11.0	3.00				
TOTAL RECEIVED	400	TOTAL LOST	50										

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
Aus-Gel (Aust)	\$ 13.20	55		16	39	\$ 211.20		%	PPB	Jet Velocity	299	
Baryte	\$ 8.45	660		150	510	\$ 1,267.50	High Grav solids	1.0	14.82	Impact force	818	
Lime	\$ 9.40	3		1	2	\$ 9.40	Total LGS	4.5	42.6	HHP	248	
Potassium Chloride	\$ 19.90	258		132	126	\$ 2,626.80	Bentonite	1.4	13.1	HSI	2.1	
							Drilled Solids	3.1	27.9	Bit Press Loss	755	
							Salt	1.0	9.3	CSG Seat Frac Press		
							n @ 24:00 Hrs	0.17		Equiv. Mud Wt.		
							K @ 24:00 Hrs	131.15		Max Pressure @ Shoe :		
							DAILY COST			CUMULATIVE COST		
							\$4,114.90			\$5,606.50		

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DRILLING FLUID REPORT



Report #	3	Date :	30-Mar-2007
Rig No	2	Spud :	28-Mar-2007
Depth	511	to	581 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Ron Bown	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE	TYPE	14	14	14	16	SURFACE SET @	31 ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
12.25	Smith XR117	14				9	M	253	346	6	X	16	900
DRILL PIPE SIZE	TYPE	#	Length	INTERMEDIATE SET @		ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)		
4.5			354	Mtrs		M	599		TSM-500	95	%	23	
DRILL PIPE SIZE	TYPE	#	Length	PRODUCTION. or LINER Set @		ft	IN STORAGE		BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)		
4.50	HW		37	Mtrs		M			0.1600	66	60		
DRILL COLLAR SIZE (")	Length	MUD TYPE		Gel Spud Mud				BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP	80	Lam
6.25	8.00	168	22	Mtrs					10.03	421	DCs	93	120

SAMPLE FROM		Pit		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS				
TIME SAMPLE TAKEN	10:00	20:00	Mud Weight	8.6-9.4	API Filtrate	NC	HPHT Filtrate			
DEPTH (ft) - (m)	531	581	Plastic Vis	ALAP	Yield Point	pH			8.5-10	
FLOWLINE TEMPERATURE			KCl	PHPA		Sulphites				

WEIGHT	ppg / SG	9.40	1.128	9.10	1.092	OBSERVATIONS Lost 76bbls mud while tripping. Mostly to formation, probably due to heavy mud weight of 9.4ppg. Running desander and desilter and adding water to control high viscosity. A lot of large pieces of soft clay coming over the shaker after the trips while circulating bottoms up. On instructions from town cut back the mud weight from 9.4 to 9.1ppg while circulating prior to pulling out to run casing. 25sx barite used for slug.				
FUNNEL VISCOSITY (sec/qt) API @	°C	50	36							
PLASTIC VISCOSITY cP @	°C	9	4							
YIELD POINT (lb/100ft ²)		57	24							
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		20	24	9	10					
RHEOLOGY Ø 600 / Ø 300		75	66	32	28					
RHEOLOGY Ø 200 / Ø 100										
RHEOLOGY Ø 6 / Ø 3										
FILTRATE API (cc's/30 min)		NC	NC							
HPHT FILTRATE (cc's/30 min) @	°F									

LIQUID CONTENT (% by Volume) OIL/WATER		94.8	96.9	OPERATIONS SUMMARY Continue drilling from 511m to 531m. POOH to top of BHA and fix wash pipe. RIH and continue drilling to 581m. Circulate bottoms up. Survey 1/2 degree. POOH to surface for wiper trip. Lay down 12-1/4" stabilizer. RIH. Circulate and condition mud. Pump slug and POOH to run casing.					
SAND CONTENT (% by Vol.)	0.75	0.75							
METHYLENE BLUE CAPACITY (ppb equiv.)	16.0	16.0							
pH	8.5	8.5							
ALKALINITY MUD (Pm)									
ALKALINITY FILTRATE (Pf / Mf)	0.10	0.60	0.10						0.50
CHLORIDE (mg/L)	16,000	15,000							
TOTAL HARDNESS AS CALCIUM (mg/L)	600	520							
SULPHITE (mg/L)									
K+ (mg/L)	18,375	18,375							

Mud Accounting (bbls)				Solids Control Equipment									
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	80	Desander	4	INITIAL VOLUME	516	Centrifuge		Desander	2	3	Shaker #1	84/84/84	9
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED	160	Degasser		Desilter	10		Shaker #2	84/84/84	9
Drill Water	80	Downhole	52			- FLUID LOST	77	Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)	
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE		Desander		13.0		1.00			
Other (eg Diesel)		Other	20			Desilter		0					
TOTAL RECEIVED	160	TOTAL LOST	77	FINAL VOLUME	599								

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
Aus-Gel (Aust)	\$ 13.20	39		2	37	\$ 26.40	%	PPB	Jet Velocity	224	
Baryte	\$ 8.45	510		87	423	\$ 735.15	High Grav solids	1.2	17.58	Impact force	445
							Total LGS	1.9	17.9	HHP	101
							Bentonite	1.8	16.0	HSI	0.9
							Drilled Solids	0.1	1.2	Bit Press Loss	411
							Salt	0.9	8.7	CSG Seat Frac Press	
							n @ 20:00 Hrs	0.19	Equiv. Mud Wt.		
							K @ 20:00 Hrs	43.07	Max Pressure @ Shoe :		
							DAILY COST		CUMULATIVE COST		
							\$761.55		\$6,368.05		

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DRILLING FLUID REPORT

Report #	4	Date :	31-Mar-2007
Rig No	2	Spud :	28-Mar-2007
Depth	581	to	581 Metres

OPERATOR Beach Petroleum		CONTRACTOR Hunt Energy	
REPORT FOR Ron Bown		REPORT FOR Damien Baldwin	
WELL NAME AND No Kewarra-1		FIELD ATP 633P	LOCATION Cooper Basin
		STATE Queensland	
DRILLING ASSEMBLY		JET SIZE	CASING
BIT SIZE 12.25	TYPE		16 SURFACE 31 ft SET @ 9 M
DRILL PIPE SIZE 4.5	TYPE #	Length	Mtrs
DRILL PIPE SIZE 4.50	TYPE HW	Length	Mtrs
DRILL COLLAR SIZE (") 6.25		Length	Mtrs
MUD VOLUME (BBL) HOLE 146 PITS			
CIRCULATION DATA PUMP SIZE 6 X 16 Inches CIRCULATION PRESS (PSI) psi			
INTERMEDIATE SET @		ft	M
PRODUCTION or LINER Set @		ft	M
MUD TYPE Gel Spud Mud			
TOTAL CIRCULATING VOL. 146		PUMP MODEL TSM-500	
IN STORAGE		ASSUMED EFF 95 %	
		BOTTOMS UP (min) min	
		TOTAL CIRC. TIME (min) min	
		ANN VEL. DP (ft/min) DCs	

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS			
TIME SAMPLE TAKEN		Pit	Pit	Mud Weight	8.6-9.4	API Filtrate	NC
DEPTH (ft) - (m)		12:00	24:00	Plastic Vis	ALAP	Yield Point	HPHT Filtrate
FLOWLINE TEMPERATURE		Metres	581	581	KCl	PHPA	Sulphites
WEIGHT		OBSERVATIONS					
FUNNEL VISCOSITY (sec/qt) API @		ppg / SG	9.10	1.092	9.10	1.092	Cement was displaced using spud mud.
PLASTIC VISCOSITY cP @		°C	36	36			
YIELD POINT (lb/100ft²)		°C	4				
GEL STRENGTHS (lb/100ft²) 10 sec/10 min			24				
RHEOLOGY 0 600 / 0 300			8.10				
RHEOLOGY 0 200 / 0 100			32	28			
RHEOLOGY 0 6 / 0 3							
FILTRATE API (cc's/30 min)			NC				
HPHT FILTRATE (cc's/30 min) @							
CAKE THICKNESS API : HPHT (32nd in)							
SOLIDS CONTENT (% by Volume)			3.1	1.2			
LIQUID CONTENT (% by Volume) OIL/WATER			96.9	98.8	OPERATIONS SUMMARY		
SAND CONTENT (% by Vol.)			0.75		Run 9-5/8" casing. Circulate through casing while waiting on Halliburton.		
METHYLENE BLUE CAPACITY (ppb equiv.)			15.0		Rig up Halliburton and cement casing at 578m with full returns of cement to surface. Dump mud and clean pits while waiting on cement.		
pH			8.5				
ALKALINITY MUD (Pm)							
ALKALINITY FILTRATE (Pf/ Mf)			0.10	0.50			
CHLORIDE (mg/L)			15,000				
TOTAL HARDNESS AS CALCIUM (mg/L)			520				
SULPHITE (mg/L)							
K+ (mg/L)			18,375				
KCl (% by Wt.)			3.5				
PHPA (ppb)							
ECD (ppg)							

Mud Accounting (bbls)				Solids Control Equipment							
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)		Desander		INITIAL VOLUME	599	Centrifuge		Desander	2	Shaker #1	84/84/84
Premix (recirc from sump)		Desilter				Degasser		Desilter	10	Shaker #2	84/84/84
Drill Water		Downhole	0	+ FLUID RECEIVED							
Direct Recirc Sump		Dumped	453	- FLUID LOST							
Other (eg Diesel)		Other		+ FLUID IN STORAGE							
TOTAL RECEIVED		TOTAL LOST		FINAL VOLUME		Desander		0		Output (Gal/Min.)	
				146		Desilter		0			

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
Aus-Gel (Aust)		\$ 13.20	37		3	34	\$ 39.60		%	PPB	Jet Velocity		
								High Grav solids	1.2	17.58	Impact force		
								Total LGS			HHP		
								Bentonite			HSI		
								Drilled Solids			Bit Press Loss		
								Salt			CSG Seat Frac Press		
								n @ 24:00 Hrs			Equiv. Mud Wt.		
								K @ 24:00 Hrs			Max Pressure @ Shoe :		
								DAILY COST			CUMULATIVE COST		
								\$39.60			\$6,407.65		

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DRILLING FLUID REPORT



Report #	5	Date :	1-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	581	to	581 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Ron Bown	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE	TYPE			9 5/8 SURFACE SET @	1896 ft 578 M	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
8.50						147		6 X 16	Inches	psi	
DRILL PIPE SIZE	TYPE	#	Length	INTERMEDIATE SET @	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)	
4.5			Mtrs		M	494		TSM-500	95 %	min	
DRILL PIPE SIZE	TYPE	#	Length	PRODUCTION. or LINER Set @	ft	IN STORAGE		BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)	
4.50			Mtrs		M	347		0.1600		min	
DRILL COLLAR SIZE (")			Length	MUD TYPE				BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP DCs
6.25	8.00		Mtrs	KCL Brine							

SAMPLE FROM				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
TIME SAMPLE TAKEN				Pit	Pit	Mud Weight		8.6-9.4	API Filtrate	NC	HPHT Filtrate
DEPTH (ft) - (m)				12:00	24:00	Plastic Vis	ALAP	Yield Point	pH		
FLOWLINE TEMPERATURE				581	581	KCl	PHPA	Sulphites			
WEIGHT				OBSERVATIONS							
FUNNEL VISCOSITY (sec/qt) API @				8.30	0.996	8.60	1.032	Filled pits with water and mixed KCL Brine. Fitted shaker 2 with 3 110 mesh pre-used screens. No new screens have been used on this well so far.			
PLASTIC VISCOSITY cP @				Water		Brine					
YIELD POINT (lb/100ft ²)											
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min											
RHEOLOGY 0 600 / 0 300											
RHEOLOGY 0 200 / 0 100											
RHEOLOGY 0 6 / 0 3											
FILTRATE API (cc's/30 min)				NC	NC						
HPHT FILTRATE (cc's/30 min) @											
CAKE THICKNESS API : HPHT (32nd in)											
SOLIDS CONTENT (% by Volume)											
LIQUID CONTENT (% by Volume) OIL/WATER				100.4	99.4			OPERATIONS SUMMARY			
SAND CONTENT (% by Vol.)								WOC. Clean pits and flush lines. Fill all pits with water. Nipple down and nipple up. Pressure testing.			
METHYLENE BLUE CAPACITY (ppb equiv.)											
pH				9.0	8.5						
ALKALINITY MUD (Pm)											
ALKALINITY FILTRATE (Pf/ Mf)				0.28	1.80	0.15	1.00				
CHLORIDE (mg/L)				2,700	20,000						
TOTAL HARDNESS AS CALCIUM (mg/L)				100							
SULPHITE (mg/L)											
K+ (mg/L)											
KCl (% by Wt.)											
PHPA (ppb)											
ECD (ppg)											

Mud Accounting (bbls)					Solids Control Equipment						
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)	347	Desander		INITIAL VOLUME	146	Centrifuge		Desander	2	Shaker #1	110/110/110
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED	347	Degasser		Desilter	10	Shaker #2	84/84/84
Drill Water		Downhole				- FLUID LOST					
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE	347	Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)	
Other (eg Diesel)		Other				Desander		0			
TOTAL RECEIVED	347	TOTAL LOST		FINAL VOLUME	840	Desilter		0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
Potassium Chloride	\$ 19.90	126	756	102	780	\$ 2,029.80	%	PPB	Jet Velocity			
							High Grav solids		Impact force			
							Total LGS	0.6	5.5	HHP		
							Bentonite	-0.1	-0.7	HSI		
							Drilled Solids	0.7	6.0	Bit Press Loss		
							Salt	1.2	11.6	CSG Seat Frac Press		
							n @ 24:00 Hrs			Equiv. Mud Wt.		
							K @ 24:00 Hrs			Max Pressure @ Shoe :		
							DAILY COST			CUMULATIVE COST		
							\$2,029.80			\$8,437.45		

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DRILLING FLUID REPORT



Report #	6	Date :	2-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	581	to	862 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Ron Bown	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY			JET SIZE		CASING			MUD VOLUME (BBL)		CIRCULATION DATA										
BIT SIZE	TYPE	Length	13	13	13	9 5/8	SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE			CIRCULATION					
8.50	EBXSCISC					578	M			184	338	6	X	16	Inches	PRESS (PSI)	1300			psi
DRILL PIPE SIZE	TYPE	#	Length	INTERMEDIATE SET @			ft	TOTAL CIRCULATING VOL.	PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)							
4.5			652	Mtrs	M			522	TSM-500	95 %		18								
DRILL PIPE SIZE	TYPE	#	Length	PRODUCTION. or LINER Set @			ft	IN STORAGE	BBL/STK		STK / MIN		TOTAL CIRC. TIME (min)							
4.50	HW		37	Mtrs	M				0.1600	58		59								
DRILL COLLAR SIZE (")	Length		MUD TYPE					BBL/MIN		GAL / MIN		ANN VEL. DP		174	Tur					
6.25	8.00	173	Mtrs	KCL Polymer					8.82	370		ft/min		DCs	273	1100	Tur			

SAMPLE FROM		MUD PROPERTIES	
TIME SAMPLE TAKEN	DEPTH (ft) - (m)	Pit	Pit
		12:00	24:00
DEPTH (ft) - (m)	Metres	584	862
FLOWLINE TEMPERATURE	⁰ C / ⁰ F		
WEIGHT	ppg / SG	8.60	1.032
FUNNEL VISCOSITY (sec/qt) API @	⁰ C	Brine	34
PLASTIC VISCOSITY cP @	⁰ C		8
YIELD POINT (lb/100ft ²)			9
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min			
RHEOLOGY θ 600 / θ 300			25
RHEOLOGY θ 200 / θ 100			17
RHEOLOGY θ 6 / θ 3			
FILTRATE API (cc's/30 min)		NC	NC
HPHT FILTRATE (cc's/30 min) @	⁰ F		
CAKE THICKNESS API : HPHT (32nd in)			
SOLIDS CONTENT (% by Volume)		0.6	2.0
LIQUID CONTENT (% by Volume) OIL/WATER		99.4	98.0
SAND CONTENT (% by Vol.)			TR
METHYLENE BLUE CAPACITY (ppb equiv.)			
pH		12.0	10.0
ALKALINITY MUD (Pm)			
ALKALINITY FILTRATE (Pf / Mf)		0.40	2.60
CHLORIDE (mg/L)		20,000	21,000
TOTAL HARDNESS AS CALCIUM (mg/L)		2000	800
SULPHITE (mg/L)			
K+ (mg/L)		21,000	21,000
KCl (% by Wt.)		4.0	4.0
PHPA (ppb)			
ECD (ppg)			

MUD PROPERTY SPECIFICATIONS			
Mud Weight	8.6-9.0	API Filtrate	NC
Plastic Vis	ALAP	Yield Point	HPHT Filtrate
KCl	PHPA	Sulphites	

OBSERVATIONS
 Drilled cement with new KCL Brine resulting in very high pH and hardness. Treating mud with Citric Acid to lower pH, and adding Soda Ash and Caustic to bring down the hardness. Started mudding up at 825m.

OPERATIONS SUMMARY
 Make up new BHA. RIH to 549m. Displace hole to brine while drilling out shoe track. Drill 3m of formation and conduct LOT. Drill and survey to 862m.

Mud Accounting (bbls)				
FLUID BUILT & RECEIVED	FLUID DISPOSED		SUMMARY	
Premix (drill water)	40	Desander	4	INITIAL VOLUME
Premix (recirc from sump)		Desilter		494
Drill Water		Downhole	8	+ FLUID RECEIVED
Direct Recirc Sump		Dumped		40
Other (eg Diesel)		Other		- FLUID LOST
				13
				+ FLUID IN STORAGE
TOTAL RECEIVED	40	TOTAL LOST	13	FINAL VOLUME
				522

Solids Control Equipment						
Type	Hrs	Cones	Hrs	Size	Hrs	
Centrifuge		Desander	2	15	Shaker #1	110/110/110
Degasser		Desilter	10		Shaker #2	84/84/84
		Overflow (ppg)		Underflow (ppg)	Output (Gal/Min.)	
Desander				10.6	0.20	
Desilter				0		

Product	Price	Start	Received	Used	Close	Cost
AMC PHPA	\$ 118.90	36		7	29	\$ 832.30
Caustic Soda	\$ 49.60	20		2	18	\$ 99.20
Citric Acid	\$ 73.25	20		15	5	\$ 1,098.75
Potassium Chloride	\$ 19.90	780		33	747	\$ 656.70
Soda Ash	\$ 18.30	29		20	9	\$ 366.00
Sodium Sulphite	\$ 33.40	55		4	51	\$ 133.60

Solids Analysis			Bit Hydraulics & Pressure Data	
	%	PPB	Jet Velocity	305
High Grav solids			Impact force	514
Total LGS	2.0	19.4	HHP	159
Bentonite	-0.3	-2.3	HSI	2.8
Drilled Solids	2.3	21.0	Bit Press Loss	735
Salt	1.3	12.2	CSG Seat Frac Press	
n @ 24:00 Hrs	0.56		Equiv. Mud Wt.	
K @ 24:00 Hrs	2.71		Max Pressure @ Shoe :	
DAILY COST			CUMULATIVE COST	
\$3,186.55			\$11,624.00	

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DRILLING FLUID REPORT

Report #	7	Date :	3-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	862	to	1146 Metres

OPERATOR Beach Petroleum	CONTRACTOR Hunt Energy
REPORT FOR Ron Bown	REPORT FOR Damien Baldwin
WELL NAME AND No Kewarra-1	FIELD ATP 633P
	LOCATION Cooper Basin
	STATE Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA							
BIT SIZE	TYPE	13	13	9 5/8	SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)			
8.50	EBXSCISC				578	M		245	334	6	X	16	Inches	1150	psi
DRILL PIPE SIZE	TYPE	Length		INTERMEDIATE SET @		ft	TOTAL CIRCULATING VOL.		PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)		
4.5	#	936	Mtrs			M	579		TSM-500		95 %		28		
DRILL PIPE SIZE	TYPE	Length		PRODUCTION. or LINER Set @		ft	IN STORAGE		BBL/STK		STK / MIN		TOTAL CIRC. TIME (min)		
4.50	HW	37	Mtrs			M			0.1600		50		76		
DRILL COLLAR SIZE (")	Length			MUD TYPE					BBL/MIN		GAL / MIN		ANN VEL. DP		
6.25	8.00	173	Mtrs	KCL Polymer					7.60		319		150 Lam		
														236	948 Lam

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Pit	Pit	Mud Weight	8.9-9.0	API Filtrate	8-10	HPHT Filtrate	
DEPTH (ft) - (m)	Metres	1,014	1,146	Plastic Vis	ALAP	Yield Point	12-25	pH	8.5-10
FLOWLINE TEMPERATURE	°C / °F			KCl		PHPA		Sulphites	

WEIGHT		OBSERVATIONS	
FUNNEL VISCOSITY (sec/qt) API @	°C	38	40
PLASTIC VISCOSITY cP @	°C	9	11
YIELD POINT (lb/100ft ²)		7	13
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		1 1	2 7
RHEOLOGY Ø 600 / Ø 300		25	16
RHEOLOGY Ø 200 / Ø 100			
RHEOLOGY Ø 6 / Ø 3			
FILTRATE API (cc's/30 min)		6.8	6.8
HPHT FILTRATE (cc's/30 min) @ 130 °F			
CAKE THICKNESS API : HPHT (32nd in)		1	1
SOLIDS CONTENT (% by Volume)		3.4	4.1
LIQUID CONTENT (% by Volume) OIL/WATER		96.6	95.9
SAND CONTENT (% by Vol.)		TR	TR
METHYLENE BLUE CAPACITY (ppb equiv.)			10.0
pH		10.0	10.0
ALKALINITY MUD (Pm)			
ALKALINITY FILTRATE (Pf / Mf)		0.20	2.80
CHLORIDE (mg/L)		19,000	19,000
TOTAL HARDNESS AS CALCIUM (mg/L)		2000	1800
SULPHITE (mg/L)			
K+ (mg/L)		21,000	21,000
KCl (% by Wt.)		4.0	4.0
PHPA (ppb)			
ECD (ppg)			

OBSERVATIONS
 Added PAC-R to reduce fluid loss and Xanthan Gum to raise yeild point. Added Barite to increase mud weight to 8.9ppg prior to entering the Cadna Owie formation. Used 80bbbs water recycled from the sump but this caused a large increase in hardness and solids. So switched back to turkeys nest water temporarily to allow for better settlement and prevent excessive hardness from burning up the polymers.

Replaced 2 x 84 mesh screens on shaker 1 with 2 x pre-used 110 mesh.
 Replaced 3 x 110mesh screens on shaker 2 with 3 x pre-used 140 mesh.

Mud Accounting (bbls)		Solids Control Equipment											
FLUID BUILT & RECEIVED	FLUID DISPOSED	SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs				
Premix (drill water)	40	Desander	3	INITIAL VOLUME	522	Centrifuge		Desander	2	12	Shaker #1	110/110/84	24
Premix (recirc from sump)		Desilter	23			Degasser		Desilter	10	2	Shaker #2	140/140/140	24
Drill Water		Downhole	37	+ FLUID RECEIVED	120								
Direct Recirc Sump	80	Dumped		- FLUID LOST	63								
Other (eg Diesel)		Other		+ FLUID IN STORAGE									
TOTAL RECEIVED	120	TOTAL LOST	63	FINAL VOLUME	579			Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)			
						Desander			10.6	0.20			
						Desilter			10.8	7.90			

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC Pac R	\$	159.98	99	16	83	\$	2,559.68	%	PPB	Jet Velocity	263	
Baryte	\$	8.45	423	40	383	\$	338.00	High Grav solids		Impact force	395	
Citric Acid	\$	73.25	5	5		\$	366.25	Total LGS	4.1	38.6	HHP	105
Potassium Chloride	\$	19.90	747	40	707	\$	796.00	Bentonite	0.7	6.7	HSI	1.8
Soda Ash	\$	18.30	9	7	2	\$	128.10	Drilled Solids	3.3	30.4	Bit Press Loss	565
Sodium Sulphite	\$	33.40	51	4	47	\$	133.60	Salt	1.1	11.0	CSG Seat Frac Press	
Xanthan Gum	\$	359.25	44	5	39	\$	1,796.25	n @ 24:00 Hrs	0.54		Equiv. Mud Wt.	
								K @ 24:00 Hrs	4.12		Max Pressure @ Shoe :	
DAILY COST										CUMULATIVE COST		
\$6,117.88										\$17,741.88		

RMN ENGINEER	Dean Perkins	CITY	Adelaide Office	TELEPHONE	08 8338 7266
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DRILLING FLUID REPORT



Report #	8	Date :	4-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1146	to	1315 Metres

OPERATOR Beach Petroleum	CONTRACTOR Hunt Energy
REPORT FOR Gary Mogg	REPORT FOR Damien Baldwin
WELL NAME AND No Kewarra-1	FIELD ATP 633P
	LOCATION Cooper Basin
	STATE Queensland

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)			CIRCULATION DATA								
BIT SIZE	TYPE	Length	13	13	13	9 5/8	SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE			CIRCULATION PRESS (PSI)					
8.50	EBXSCISC						578	M		282	355	6	X	16	Inches	1150 psi				
DRILL PIPE SIZE	TYPE	#	Length			INTERMEDIATE SET @	ft			TOTAL CIRCULATING VOL.			PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)					
4.5			1105			M	637						TSM-500	95	%	32 min				
DRILL PIPE SIZE	TYPE	Length				PRODUCTION. or LINER Set @	ft			IN STORAGE			BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)					
4.50	HW	37	Mtrs										0.1600	50	84 min					
DRILL COLLAR SIZE (")	Length				MUD TYPE							BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP DCs	150	236	948	Tur	
6.25	8.00	173	Mtrs			KCL Polymer							7.60	319						

				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS											
SAMPLE FROM				Pit		Pit		Mud Weight	8.9-9.0	API Filtrate	8-10	HPHT Filtrate							
TIME SAMPLE TAKEN				12:00		24:00		Plastic Vis	ALAP	Yield Point	12-25	pH							
DEPTH (ft) - (m)				Metres		1,274		1,315		KCl	PHPA		Sulphites						
FLOWLINE TEMPERATURE				°C		°F		<h3 style="text-align: center;">OBSERVATIONS</h3> <p>Running desander and desilter and dumping and diluting to keep the weight down. Removed and serviced some of the cones on the desilter in order to reduce the excessive mud loss from there and to increase the weight of the discharge. Adding PAC-R for fluid loss and Xanthan Gum for yield point. The heavy dilution is reducing the high pH caused by the cement contamination.</p>											
WEIGHT				ppg / SG		9.20								1.104		9.20		1.104	
FUNNEL VISCOSITY (sec/qt) API @				°C		38								36					
PLASTIC VISCOSITY cP @				°C		10								8					
YIELD POINT (lb/100ft²)						8								9					
GEL STRENGTHS (lb/100ft²) 10 sec/10 min						18								17					
RHEOLOGY θ 600 / θ 300						28								18		25		17	
RHEOLOGY θ 200 / θ 100																			
RHEOLOGY θ 6 / θ 3																			
FILTRATE API (cc's/30 min)						7.8								8.0					
HPHT FILTRATE (cc's/30 min) @				°F															
CAKE THICKNESS API : HPHT (32nd in)						1		1											
SOLIDS CONTENT (% by Volume)						4.9		4.9											
LIQUID CONTENT (% by Volume) OIL/WATER						95.1		95.1											
SAND CONTENT (% by Vol.)						TR		TR											
METHYLENE BLUE CAPACITY (ppb equiv.)						10.0		10.0											
pH						10.0		9.0											
ALKALINITY MUD (Pm)																			
ALKALINITY FILTRATE (Pf / Mf)						0.20		2.80		0.20		2.00							
CHLORIDE (mg/L)						20,000		21,000											
TOTAL HARDNESS AS CALCIUM (mg/L)						1800		1800											
SULPHITE (mg/L)																			
K+ (mg/L)						21,000		21,000											
KCl (% by Wt.)						4.0		4.0											
PHPA (ppb)																			
ECD (ppg)																			

Mud Accounting (bbls)						Solids Control Equipment							
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	240	Desander	5	INITIAL VOLUME	579	Centrifuge		Desander	2	18	Shaker #1	110/110/84	18
Premix (recirc from sump)		Desilter	46	+ FLUID RECEIVED	240	Degasser		Desilter	10	16	Shaker #2	140/140/140	18
Drill Water		Downhole	37			- FLUID LOST	183						
Direct Recirc Sump		Dumped	95	+ FLUID IN STORAGE									
Other (eg Diesel)		Other				Overflow (ppg)			Underflow (ppg)		Output (Gal/Min.)		
						Desander		10.6		0.20			
						Desilter		11.3		2.00			

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
AMC Pac R		\$ 159.98	83		6	77	\$ 959.88	%	PPB	Jet Velocity	263		
AMC PHPA		\$ 118.90	29		2	27	\$ 237.80	High Grav solids		Impact force	400		
Potassium Chloride		\$ 19.90	707		111	596	\$ 2,208.90	Total LGS	4.9	46.5	HHP	106	
Sodium Sulphite		\$ 33.40	47		4	43	\$ 133.60	Bentonite	0.6	5.8	HSI	1.9	
Xanthan Gum		\$ 359.25	39		1	38	\$ 359.25	Drilled Solids	4.3	38.9	Bit Press Loss	571	
								Salt	1.3	12.2	CSG Seat Frac Press		
								n @ 24:00 Hrs	0.56		Equiv. Mud Wt.		
								K @ 24:00 Hrs	2.71		Max Pressure @ Shoe :		

							DAILY COST	CUMULATIVE COST					
							\$3,899.43	\$21,641.31					

RMN ENGINEER Dean Perkins	CITY Adelaide Office	TELEPHONE 08 8338 7266
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DRILLING FLUID REPORT

Report #	9	Date :	5-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1315	to	1409 Metres

OPERATOR Beach Petroleum	CONTRACTOR Hunt Energy		
REPORT FOR Gary Mogg	REPORT FOR Damien Baldwin		
WELL NAME AND No Kewarra-1	FIELD ATP 633P	LOCATION Cooper Basin	STATE Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA							
BIT SIZE 8.50	TYPE EBXSCISC	13	13	13	9 5/8 SURFACE SET @ 1896 ft 578 M	HOLE 302	PITS 325	PUMP SIZE 6 X 16 Inches		CIRCULATION PRESS (PSI) 1150 psi					
DRILL PIPE SIZE 4.5	TYPE #	Length 1199 Mtrs		INTERMEDIATE SET @ M		TOTAL CIRCULATING VOL. 627		PUMP MODEL TSM-500	ASSUMED EFF 95 %	BOTTOMS UP (min) 35 min					
DRILL PIPE SIZE 4.50	TYPE HW	Length 37 Mtrs		PRODUCTION. or LINER Set @ M		IN STORAGE		BBL/STK 0.1600	STK / MIN 50	TOTAL CIRC. TIME (min) 82 min					
DRILL COLLAR SIZE (") 6.25		Length 8.00		173 Mtrs		MUD TYPE KCL Polymer		BBL/MIN 7.60	GAL / MIN 319	ANN VEL. (ft/min)	DP DCs	150	Lam 236	948	Tur

SAMPLE FROM			MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN			Pit 12:00	Pit 24:00	Mud Weight 8.9-9.0	API Filtrate 8-10	HPHT Filtrate			
DEPTH (ft) - (m)			Metres 1,315	1,409	Plastic Vis KCl	ALAP	Yield Point PHPA	12-25	pH Sulphites	8.5-10

FLOWLINE TEMPERATURE		°C		°F		OBSERVATIONS				
WEIGHT		ppg / SG		9.10 1.092		Running desilter and desander constantly, and dumping and diluting to control mud weight. Mixing PAC-R for fluid loss and Xanthan Gum for yeild point. Caustic and Soda Ash to try and reduce hardness. Adding PHPA slowly when possible.				
FUNNEL VISCOSITY (sec/qt) API @		°C		35 41		Yesterday installed 110/110/84 mesh screens on shaker 1, but running over only shaker 2 which is 3 x 140 mesh screens. No new screens have been used so far.				
PLASTIC VISCOSITY cP @		°C		8 15						
YIELD POINT (lb/100ft²)				9 10						
GEL STRENGTHS (lb/100ft²) 10 sec/10 min				1 6 1 3						
RHEOLOGY θ 600 / θ 300				25 17 40 25						
RHEOLOGY θ 200 / θ 100										
RHEOLOGY θ 6 / θ 3										
FILTRATE API (cc's/30 min)				6.8 6.2						
HPHT FILTRATE (cc's/30 min) @		130 °F								
CAKE THICKNESS API : HPHT (32nd in)				1 1						
SOLIDS CONTENT (% by Volume)				4.2 4.2						
LIQUID CONTENT (% by Volume) OIL/WATER				95.8 95.8						

SAND CONTENT (% by Vol.)		TR TR		OPERATIONS SUMMARY				
METHYLENE BLUE CAPACITY (ppb equiv.)		10.0 10.0		POOH for swivel. Break bit and lay down pony and stabilizer. RIH to BHA. Lay down swivel and wait on arrival of replacement. Install swivel. RIH (6m fill). Drill and survey from 1315m to 1409m.				
pH		9.0 10.0						
ALKALINITY MUD (Pm)								
ALKALINITY FILTRATE (Pf / Mf)		0.20 2.00 0.20 2.50						
CHLORIDE (mg/L)		22,000 22,000						
TOTAL HARDNESS AS CALCIUM (mg/L)		1800 1600						
SULPHITE (mg/L)								
K+ (mg/L)		21,000 21,000						
KCl (% by Wt.)		4.0 4.0						
PHPA (ppb)								
ECD (ppg)								

Mud Accounting (bbls)				Solids Control Equipment									
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	160	Desander	3	INITIAL VOLUME	637	Centrifuge		Desander	2	10	Shaker #1	110/110/84	12
Premix (recirc from sump)		Desilter	29			Degasser		Desilter	10	10	Shaker #2	140/140/140	12
Drill Water		Downhole	38	+ FLUID RECEIVED									
Direct Recirc Sump		Dumped	100	- FLUID LOST									
Other (eg Diesel)		Other		+ FLUID IN STORAGE									
TOTAL RECEIVED	160	TOTAL LOST	170	FINAL VOLUME	627			Desander	10.6		0.20		
								Desilter	11.3		2.00		

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC Pac R	\$ 159.98	77		12	65	\$ 1,919.76		%	PPB	Jet Velocity 263		
AMC PHPA	\$ 118.90	27		2	25	\$ 237.80	High Grav solids			Impact force 395		
Potassium Chloride	\$ 19.90	596		14	582	\$ 278.60	Total LGS	4.2	40.1	HHP 105		
Soda Ash	\$ 18.30	2		2		\$ 36.60	Bentonite	0.7	6.6	HSI 1.8		
Sodium Sulphite	\$ 33.40	43		3	40	\$ 100.20	Drilled Solids	3.5	32.0	Bit Press Loss 565		
Xanthan Gum	\$ 359.25	38		3	35	\$ 1,077.75	Salt	1.3	12.7	CSG Seat Frac Press		
								n @ 24:00 Hrs	0.68	Equiv. Mud Wt.		
								K @ 24:00 Hrs	1.87	Max Pressure @ Shoe :		

							DAILY COST		CUMULATIVE COST			
							\$3,650.71		\$25,292.02			

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DRILLING FLUID REPORT

Report #	10	Date :	6-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1409	to	1492
			Metres

OPERATOR Beach Petroleum	CONTRACTOR Hunt Energy
REPORT FOR Gary Mogg	REPORT FOR Damien Baldwin
WELL NAME AND No Kewarra-1	FIELD ATP 633P
	LOCATION Cooper Basin
	STATE Queensland

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)		CIRCULATION DATA																								
BIT SIZE	8.50	TYPE	EBXSCISC	13	13	13	9 5/8	SURFACE SET @	1896	ft	HOLE	321	PITS	344	PUMP SIZE			CIRCULATION PRESS (PSI)																	
DRILL PIPE SIZE 4.5			TYPE #			Length			1296			Mtrs			INTERMEDIATE SET @			ft M			TOTAL CIRCULATING VOL.			PUMP MODEL			ASSUMED EFF			BOTTOMS UP (min)					
DRILL PIPE SIZE 4.50			TYPE HW			Length			37			Mtrs			PRODUCTION. or LINER Set @			ft M			IN STORAGE			BBL/STK			STK / MIN			TOTAL CIRC. TIME (min)					
DRILL COLLAR SIZE (")			Length			6.25			8.00			160			Mtrs			MUD TYPE			KCL Polymer			BBL/MIN			GAL / MIN			ANN VEL. DP					

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS							
TIME SAMPLE TAKEN		Pit	Pit	Mud Weight	8.9-9.0	API Filtrate	8-10	HPHT Filtrate			
DEPTH (ft) - (m)	Metres	1,485	1,492	Plastic Vis	ALAP	Yield Point	12-25	pH	8.5-10		
FLOWLINE TEMPERATURE	$^{\circ}\text{C}$ / $^{\circ}\text{F}$			KCl		PHPA		Sulphites			
WEIGHT	ppg / SG	9.10	1.092	OBSERVATIONS							
FUNNEL VISCOSITY (sec/qt) API @	$^{\circ}\text{C}$	38	38	Running desilter and desander constantly, and dumping and diluting to control mud weight. Mixing PAC-R for fluid loss and Xanthan Gum for yield point. Added biocide before trip to avoid biodegradation of polymers.							
PLASTIC VISCOSITY cP @	$^{\circ}\text{C}$	12	12								
YIELD POINT (lb/100ft ²)		14	14								
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		13	13								
RHEOLOGY θ 600 / θ 300		38	26							38	26
RHEOLOGY θ 200 / θ 100											
RHEOLOGY θ 6 / θ 3											
FILTRATE API (cc's/30 min)		6.4	6.4								
HPHT FILTRATE (cc's/30 min) @	$^{\circ}\text{F}$										
CAKE THICKNESS API : HPHT (32nd in)		1	1								
SOLIDS CONTENT (% by Volume)		4.2	4.2	OPERATIONS SUMMARY							
LIQUID CONTENT (% by Volume) OIL/WATER		95.8	95.8	Drill and survey from 1409 to 1474m. Circulate up a sample for the geologist. Drill on to 1485m. Pump slug and POOH for bit. Make up bit #4 and RIH to 567m. Slip and cut drill line. RIH to bottom. Drill ahead to 1492m.							
SAND CONTENT (% by Vol.)		TR	TR								
METHYLENE BLUE CAPACITY (ppb equiv.)		10.0	10.0								
pH		10.0	10.0								
ALKALINITY MUD (Pm)											
ALKALINITY FILTRATE (Pf/ Mf)		0.20	2.50							0.20	2.50
CHLORIDE (mg/L)		22,000	22,000								
TOTAL HARDNESS AS CALCIUM (mg/L)		1600	1600								
SULPHITE (mg/L)											
K+ (mg/L)		21,000	21,000								
KCl (% by Wt.)		4.0	4.0								
PHPA (ppb)											
ECD (ppg)											

Mud Accounting (bbls)				Solids Control Equipment									
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	80	Desander	3	INITIAL VOLUME	627	Centrifuge		Desander	2	12	Shaker #1	110/110/84	12
Premix (recirc from sump)		Desilter	9	+ FLUID RECEIVED	100	Degasser		Desilter	10	12	Shaker #2	140/140/140	12
Drill Water	20	Downhole	26			- FLUID LOST	62	Overflow (ppg) Underflow (ppg) Output (Gal/Min.)					
Direct Recirc Sump		Dumped	24			- FLUID IN STORAGE							
Other (eg Diesel)		Other		FINAL VOLUME		Desander							
TOTAL RECEIVED	100	TOTAL LOST	62	665		Desilter							

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data			
AMC Biocide G	\$ 185.35	10		4	6	\$ 741.40	%	PPB	Jet Velocity			263	
AMC Pac R	\$ 159.98	65		1	64	\$ 159.98	High Grav solids		Impact force			395	
AMC PHPA	\$ 118.90	25		1	24	\$ 118.90	Total LGS	4.2	40.1	HHP			105
Potassium Chloride	\$ 19.90	582		26	556	\$ 517.40	Bentonite	0.7	6.6	HSI			1.8
Xanthan Gum	\$ 359.25	35		4	31	\$ 1,437.00	Drilled Solids	3.5	32.0	Bit Press Loss			565
							Salt	1.3	12.7	CSG Seat Frac Press			
							n @ 24:00 Hrs	0.55	Equiv. Mud Wt.				
							K @ 24:00 Hrs	4.38	Max Pressure @ Shoe :				
							DAILY COST			CUMULATIVE COST			
							\$2,974.68			\$28,266.70			

RMN ENGINEER Dean Perkins CITY Adelaide Office TELEPHONE 08 8338 7266

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DRILLING FLUID REPORT



Report #	11	Date :	7-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1492	to	1586 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Gary Mogg	REPORT FOR	Brian Yates
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA								
BIT SIZE	TYPE	13	13	13	9 5/8 SURFACE	1896	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)				
8.50	EBXSCISC				SET @	578	M	341	331	6	X	16	Inches	1100	psi	
DRILL PIPE SIZE	TYPE	#	Length		INTERMEDIATE	ft		TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)				
4.5			1390	Mtrs	SET @	M		672		TSM-500	95 %	40 min				
DRILL PIPE SIZE	TYPE		Length		PRODUCTION. or	ft		IN STORAGE		BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)				
4.50	HW		37	Mtrs	LINER Set @	M				0.1600	50	88 min				
DRILL COLLAR SIZE (")			Length		MUD TYPE					BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP	150	Lam	
6.25		8.00	160	Mtrs	KCL Polymer					7.60	319		DCs	236	948	Lam

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Pit	Pit	Mud Weight	8.9-9.0	API Filtrate	8-10	HPHT Filtrate	
DEPTH (ft) - (m)	Metres	1,576	1,586	Plastic Vis	ALAP	Yield Point	12-25	pH	8.5-10
FLOWLINE TEMPERATURE	⁰ C ⁰ F			KCl		PHPA		Sulphites	

WEIGHT	ppg / SG	9.00	1.080	9.20	1.104	OBSERVATIONS Running desilter and desander constantly, and dumping and diluting to reduce mud weight to 9.0ppg. There was some background gas so it was decided to increase the mud weight to 9.2ppg prior to tripping and running the DST. Added some more biocide before trip and DST.			
FUNNEL VISCOSITY (sec/qt) API @	⁰ C	38		41					
PLASTIC VISCOSITY cP @	⁰ C	12		11					
YIELD POINT (lb/100ft ²)		14		16					
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		14		37					
RHEOLOGY θ 600 / θ 300		38	26	38	27				
RHEOLOGY θ 200 / θ 100									
RHEOLOGY θ 6 / θ 3									
FILTRATE API (cc's/30 min)		6.2		6.0					
HPHT FILTRATE (cc's/30 min) @	⁰ F								

LIQUID CONTENT (% by Volume) OIL/WATER			96.5	95.1	OPERATIONS SUMMARY Drill to 1527m. Circulate up a sample for the geologist and flow check. Drill on to 1586m. Circulate the hole clean and make a 17 stand wiper trip. Circulate the hole clean, spot a hi-vis pill onbottom and pump a slug. POOH for DST. Start to make up DST tool.				
SAND CONTENT (% by Vol.)		TR		TR					
METHYLENE BLUE CAPACITY (ppb equiv.)		10.0		10.0					
pH		10.0		10.0					
ALKALINITY MUD (Pm)									
ALKALINITY FILTRATE (Pf / Mf)		0.20	2.50	0.20					2.50
CHLORIDE (mg/L)		22,000		22,000					
TOTAL HARDNESS AS CALCIUM (mg/L)		1600		1600					
SULPHITE (mg/L)									
K+ (mg/L)		21,000		21,000					

Mud Accounting (bbls)				Solids Control Equipment									
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)	80	Desander	3	INITIAL VOLUME	665	Centrifuge		Desander	2	10	Shaker #1	110/110/84	13
Premix (recirc from sump)		Desilter	3	+ FLUID RECEIVED	80	Degasser		Desilter	10	10	Shaker #2	140/140/140	13
Drill Water		Downhole	34			- FLUID LOST	73						
Direct Recirc Sump		Dumped	33	+ FLUID IN STORAGE		Overflow (ppg) Underflow (ppg) Output (Gal/Min.)							
Other (eg Diesel)		Other		FINAL VOLUME		Desander 10.4 0.20 Desilter 10.6 0.20							
TOTAL RECEIVED	80	TOTAL LOST	73	672									

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC Biocide G	\$ 185.35	6		1	5	\$ 185.35	%	PPB	Jet Velocity	263	
AMC Pac R	\$ 159.98	64		1	63	\$ 159.98	High Grav solids		Impact force	400	
Baryte	\$ 8.45	383		15	368	\$ 126.75	Total LGS	4.9	46.8	HHP	106
Potassium Chloride	\$ 19.90	556		26	530	\$ 517.40	Bentonite	0.6	5.7	HSI	1.9
Sodium Sulphite	\$ 33.40	40		4	36	\$ 133.60	Drilled Solids	4.3	39.3	Bit Press Loss	571
Wildcat 420	\$ 1,396.70	5		1	4	\$ 1,396.70	Salt	1.3	12.7	CSG Seat Frac Press	
Xanthan Gum	\$ 359.25	31		6	25	\$ 2,155.50	n @ 24:00 Hrs	0.49		Equiv. Mud Wt.	
							K @ 24:00 Hrs	6.39		Max Pressure @ Shoe :	
							DAILY COST		CUMULATIVE COST		
							\$4,675.28		\$32,941.98		

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DRILLING FLUID REPORT

Report #	12	Date :	8-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1586	to	1586 Metres

OPERATOR Beach Petroleum		CONTRACTOR Hunt Energy	
REPORT FOR Gary Mogg		REPORT FOR Brian Yates	
WELL NAME AND No Kewarra-1		FIELD ATP 633P	LOCATION Cooper Basin STATE Queensland

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)			CIRCULATION DATA						
BIT SIZE	TYPE	Length	13	13	13	9 5/8 SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE			CIRCULATION PRESS (PSI)		psi		
8.50	EBXSCISC					578	M		341	328	6	X	16	Inches				
DRILL PIPE SIZE	TYPE	Length	1390 Mtrs			INTERMEDIATE SET @			TOTAL CIRCULATING VOL.			PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)		min
4.5	#					M			669			TSM-500		95 %				
DRILL PIPE SIZE	TYPE	Length	37 Mtrs			PRODUCTION. or LINER Set @			IN STORAGE			BBL/STK		STK / MIN		TOTAL CIRC. TIME (min)		min
4.50	HW					M						0.1600						
DRILL COLLAR SIZE (")	Length	160 Mtrs			MUD TYPE			KCL Polymer			BBL/MIN		GAL / MIN		ANN VEL. DP		Lam	
6.25	8.00														(ft/min) DCs		Lam	

SAMPLE FROM			MUD PROPERTIES			
TIME SAMPLE TAKEN	DEPTH (ft) - (m)	FLOWLINE TEMPERATURE	Pit	Pit	Mud Weight	8.9-9.0
12:00	Metres	⁰ C ⁰ F	12:00	24:00	Plastic Vis	ALAP
			1,576	1,586	Yield Point	12-25
WEIGHT	FUNNEL VISCOSITY (sec/qt) API @	PLASTIC VISCOSITY cP @	9.20	1.104	9.20	1.104
			41	41	HPHT Filtrate	8-10
			11	11	pH	8.5-10
			16	16	Sulphites	
			3 7	3 7	OBSERVATIONS	
			38	27		
			6.0	6.0	OPERATIONS SUMMARY	
					Make up DST tools and RIH. Rig up test head and conduct DST.	
					Reverse out after DST. Pump Slug and POOH.	
			95.1	95.1		
			TR	TR		
			10.0	10.0		
			10.0	10.0		
			0.20	2.50	0.20	2.50
			22,000	22,000		
			1600	1600		
			21,000	21,000		
			4.0	4.0		

Mud Accounting (bbls)						
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		
Premix (drill water)		Desander		INITIAL VOLUME	672	
Premix (recirc from sump)		Desilter				
Drill Water		Downhole	3	+ FLUID RECEIVED		
Direct Recirc Sump		Dumped		- FLUID LOST	3	
Other (eg Diesel)		Other		+ FLUID IN STORAGE		
TOTAL RECEIVED		TOTAL LOST	3	FINAL VOLUME	669	

Solids Control Equipment						
Type	Hrs	Cones	Hrs	Size	Hrs	
Centrifuge		Desander	2	Shaker #1	110/110/84	
Degasser		Desilter	10	Shaker #2	140/140/140	
		Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)
		Desander		0		
		Desilter		0		

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
							%	PPB	Jet Velocity	
							High Grav solids		Impact force	
							Total LGS	4.9	46.8	HHP
							Bentonite	0.6	5.7	HSI
							Drilled Solids	4.3	39.3	Bit Press Loss
							Salt	1.3	12.7	CSG Seat Frac Press
							n @ 24:00 Hrs	0.49		Equiv. Mud Wt.
							K @ 24:00 Hrs	6.39		Max Pressure @ Shoe :
							DAILY COST		CUMULATIVE COST	
									\$32,941.98	

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DRILLING FLUID REPORT



Report #	13	Date :	9-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1586	to	1630 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Gary Mogg	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	LOCATION
		ATP 633P	Cooper Basin
			STATE
			Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA									
BIT SIZE	TYPE	13	13	9 5/8	SURFACE	1896	ft	HOLE	PITS	PUMP SIZE			CIRCULATION				
8.50	EBXSCISC			SET @		578	M	351	355	6	X	16	Inches	PRESS (PSI)	1100		psi
DRILL PIPE SIZE	TYPE	Length		INTERMEDIATE		TOTAL CIRCULATING VOL.		PUMP MODEL		ASSUMED EFF		BOTTOMS					
4.5	#	1443		SET @		706		TSM-500		95 %		UP (min)		41		min	
DRILL PIPE SIZE	TYPE	Length		PRODUCTION. or		IN STORAGE		BBL/STK		STK / MIN		TOTAL CIRC.					
4.50	HW	37		LINER Set @				0.1600		50		TIME (min)		93		min	
DRILL COLLAR SIZE (")		Length		MUD TYPE				BBL/MIN		GAL / MIN		ANN VEL.		DP		150	
6.25	8.00	150		KCL Polymer				7.60		319		(ft/min)		DCs		236 948	

SAMPLE FROM			MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS								
TIME SAMPLE TAKEN			Pit	Pit			Mud Weight	8.9-9.0	API Filtrate	8-10	HPHT Filtrate				
DEPTH (ft) - (m)	Metres		1,586	1,630			Plastic Vis	ALAP	Yield Point	12-25	pH	8.5-10			
FLOWLINE TEMPERATURE	⁰ C / ⁰ F						KCl		PHPA		Sulphites				
WEIGHT	ppg / SG		9.20	1.104	9.20	1.104	OBSERVATIONS								
FUNNEL VISCOSITY (sec/qt) API @	⁰ C		35	38			Treated mud with Biocide and oxygen scavenger prior to logging. Increased viscosity with Xanthan gum. Inventory adjustment with Pac-R. PHPA wrote off 3 broken sacks. Lime used to treat camp cess pit.								
PLASTIC VISCOSITY cP @	⁰ C		10	10											
YIELD POINT (lb/100ft ²)			12	14											
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min			2 7	3 7											
RHEOLOGY θ 600 / θ 300			32	22	34	24									
RHEOLOGY θ 200 / θ 100															
RHEOLOGY θ 6 / θ 3															
FILTRATE API (cc's/30 min)			6.4	6.8											
HPHT FILTRATE (cc's/30 min) @	⁰ F														
CAKE THICKNESS API : HPHT (32nd in)			1	1											
SOLIDS CONTENT (% by Volume)			4.9	4.9											
LIQUID CONTENT (% by Volume) OIL/WATER			95.1	95.1			OPERATIONS SUMMARY								
SAND CONTENT (% by Vol.)			TR	TR			Lay out DST tools. Pick up BHA and RIH with bit. Break circulation at 1586m and work on junk. Drill from 1586m to 1592m and work on junk again. Drill to TD at 1630m. Circulate bottoms up and POOH. Rig up and run Schlumberger.								
METHYLENE BLUE CAPACITY (ppb equiv.)			10.0	10.0											
pH			9.0	9.0											
ALKALINITY MUD (Pm)															
ALKALINITY FILTRATE (Pf / Mf)			0.20	2.00	0.20	2.00									
CHLORIDE (mg/L)			21,000	20,000											
TOTAL HARDNESS AS CALCIUM (mg/L)			1500	1500											
SULPHITE (mg/L)															
K+ (mg/L)			21,000	21,000											
KCl (% by Wt.)			4.0	4.0											
PHPA (ppb)															
ECD (ppg)															

Mud Accounting (bbls)						Solids Control Equipment							
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs		
Premix (drill water)		Desander		INITIAL VOLUME	669	Centrifuge		Desander	2	12	Shaker #1	110/110/84	12
Premix (recirc from sump)		Desilter				Degasser		Desilter	10		Shaker #2	140/140/140	
Drill Water	37	Downhole	0	+ FLUID RECEIVED	37								
Direct Recirc Sump		Dumped		- FLUID LOST	0								
Other (eg Diesel)		Other		+ FLUID IN STORAGE									
TOTAL RECEIVED	37	TOTAL LOST	0	FINAL VOLUME	706			Overflow (ppg)	Underflow (ppg)	Output (Gal./Min.)			
						Desander			0				
						Desilter			0				

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data		
AMC Biocide G	\$ 185.35	5	4	1	\$ 741.40		%	PPB	Jet Velocity	263		
AMC Pac R	\$ 159.98	63	5	58	\$ 799.90	High Grav solids			Impact force	400		
AMC PHPA	\$ 118.90	24	2	22	\$ 237.80	Total LGS	4.9	46.0	HHP	106		
Lime	\$ 9.40	2	2		\$ 18.80	Bentonite	0.6	5.9	HSI	1.9		
Sodium Sulphite	\$ 33.40	36	4	32	\$ 133.60	Drilled Solids	4.2	38.3	Bit Press Loss	571		
Xanthan Gum	\$ 359.25	25	2	23	\$ 718.50	Salt	1.2	11.6	CSG Seat Frac Press			
						n @ 24:00 Hrs	0.50		Equiv. Mud Wt.			
						K @ 24:00 Hrs	5.35		Max Pressure @ Shoe :			

DAILY COST	\$2,650.00	CUMULATIVE COST	\$35,591.98
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RMN ENGINEER	Dean Perkins	CITY	Adelaide Office	TELEPHONE	08 8338 7266
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DRILLING FLUID REPORT



Report #	14	Date :	10-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1630	to	1630 Metres

OPERATOR	Beach Petroleum	CONTRACTOR	Hunt Energy
REPORT FOR	Gary Mogg	REPORT FOR	Damien Baldwin
WELL NAME AND No	Kewarra-1	FIELD	ATP 633P
		LOCATION	Cooper Basin
		STATE	Queensland

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA						
BIT SIZE	TYPE			9 5/8	SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)		
8.50	EBXSCISC				578	M		389	312	6	X	16	Inches	psi
DRILL PIPE SIZE	TYPE	#	Length	INTERMEDIATE SET @		ft	TOTAL CIRCULATING VOL.	PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)		
4.5			Mtrs	M			701	TSM-500		95 %		min		
DRILL PIPE SIZE	TYPE		Length	PRODUCTION. or LINER Set @		ft	IN STORAGE	BBL/STK		STK /MIN		TOTAL CIRC. TIME (min)		
4.50	HW		Mtrs	M				0.1600				min		
DRILL COLLAR SIZE (")			Length	MUD TYPE				BBL/MIN		GAL /MIN		ANN VEL. DP (ft/min) DCs		
6.25	8.00		Mtrs	KCL Polymer								Lam Lam		

SAMPLE FROM				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS									
TIME SAMPLE TAKEN				Pit		Pit		Mud Weight		8.9-9.0		API Filtrate		8-10		HPHT Filtrate	
DEPTH (ft) - (m)				12:00		24:00		Plastic Vis		ALAP		Yield Point		12-25		pH	
FLOWLINE TEMPERATURE				1,630		1,630		KCl		PHPA		Sulphites					
WEIGHT				9.20		1.104		9.20		1.104		OBSERVATIONS No treatment. Preparing mud products for rig move. Wrote off 3 sacks of SAPP missing from inventory.					
FUNNEL VISCOSITY (sec/qt) API @				38		38		38		38							
PLASTIC VISCOSITY cP @				10		10		10		10							
YIELD POINT (lb/100ft ²)				14		14		14		14							
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min				3 7		3 7		3 7		3 7							
RHEOLOGY Ø 600 / Ø 300				34		24		34		24							
RHEOLOGY Ø 200 / Ø 100																	
RHEOLOGY Ø 6 / Ø 3																	
FILTRATE API (cc's/30 min)				6.8		7.0		6.8		7.0							
HPHT FILTRATE (cc's/30 min) @				1		1		1		1							
CAKE THICKNESS API : HPHT (32nd in)				4.9		4.9		4.9		4.9							
LIQUID CONTENT (% by Volume) OIL/WATER				95.1		95.1		95.1		95.1		OPERATIONS SUMMARY Logging with Schlumberger. Run sidewall guns. Make up bit and RIH to 563m. Slip and cut drill line. Break circulation and RIH to 771m. Received new orders from town. POOH and rig up Schlumberger again and run sidewall guns again.					
SAND CONTENT (% by Vol.)				TR		TR		TR		TR							
METHYLENE BLUE CAPACITY (ppb equiv.)				10.0		10.0		10.0		10.0							
pH				9.0		9.0		9.0		9.0							
ALKALINITY MUD (Pm)																	
ALKALINITY FILTRATE (Pf / Mf)				0.20		2.00		0.20		2.00							
CHLORIDE (mg/L)				20,000		20,000		20,000		20,000							
TOTAL HARDNESS AS CALCIUM (mg/L)				1500		1500		1500		1500							
SULPHITE (mg/L)																	
K+ (mg/L)				21,000		21,000		21,000		21,000							
KCl (% by Wt.)				4.0		4.0		4.0		4.0							
PHPA (ppb)																	
ECD (ppg)																	

Mud Accounting (bbls)						Solids Control Equipment					
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)		Desander		INITIAL VOLUME	706	Centrifuge		Desander	2	Shaker #1	110/110/84
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED		Degasser		Desilter	10	Shaker #2	140/140/140
Drill Water		Downhole	5			- FLUID LOST	5				
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE				Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)	
Other (eg Diesel)		Other				Desander			0		
TOTAL RECEIVED		TOTAL LOST	5	FINAL VOLUME	701	Desilter			0		

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
							%	PPB	Jet Velocity	
							High Grav solids		Impact force	
							Total LGS	4.9	46.0	HHP
							Bentonite	0.6	5.9	HSI
							Drilled Solids	4.2	38.3	Bit Press Loss
							Salt	1.2	11.6	CSG Seat Frac Press
							n @ 24:00 Hrs	0.50		Equiv. Mud Wt.
							K @ 24:00 Hrs	5.35		Max Pressure @ Shoe :
							DAILY COST		CUMULATIVE COST	
									\$35,591.98	

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DRILLING FLUID REPORT



Report #	15	Date :	11-Apr-2007
Rig No	2	Spud :	28-Mar-2007
Depth	1630	to	1630 Metres

OPERATOR Beach Petroleum		CONTRACTOR Hunt Energy	
REPORT FOR Gary Mogg		REPORT FOR Brian Yates	
WELL NAME AND No Kewarra-1		FIELD ATP 633P	STATE Queensland
		LOCATION Cooper Basin	

DRILLING ASSEMBLY		JET SIZE	CASING		MUD VOLUME (BBL)		CIRCULATION DATA						
BIT SIZE	TYPE		9 5/8	SURFACE SET @	1896	ft	HOLE	PITS	PUMP SIZE			CIRCULATION PRESS (PSI)	
8.50				578	M		389	336	6	X	16	Inches	psi
DRILL PIPE SIZE	TYPE	Length	INTERMEDIATE SET @		ft	TOTAL CIRCULATING VOL.	PUMP MODEL		ASSUMED EFF		BOTTOMS UP (min)		
4.5	#	Mtrs			M	725	TSM-500	95 %					
DRILL PIPE SIZE	TYPE	Length	PRODUCTION. or LINER Set @		ft	IN STORAGE	BBL/STK		STK / MIN		TOTAL CIRC. TIME (min)		
4.50	HW	Mtrs			M		0.1600						
DRILL COLLAR SIZE (")		Length	MUD TYPE				BBL/MIN		GAL / MIN		ANN VEL.	DP	
6.25	8.00	Mtrs	KCL Polymer								(ft/min)	DCs	

				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS											
SAMPLE FROM				Pit		Pit		Mud Weight		8.9-9.0		API Filtrate		8-10		HPHT Filtrate			
TIME SAMPLE TAKEN				12:00		24:00		Plastic Vis		ALAP		Yield Point		12-25		pH		8.5-10	
DEPTH (ft) - (m)				Metres		1,630		1,630		KCl		PHPA				Sulphites			
FLOWLINE TEMPERATURE				°C		°F						OBSERVATIONS							
WEIGHT				ppg / SG		9.20		1.104		Inventory correction, wrote off 3 sacks of SAPP.									
FUNNEL VISCOSITY (sec/qt) API @				°C		38		38											
PLASTIC VISCOSITY cP @				°C		10		10											
YIELD POINT (lb/100ft ²)						14		14											
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min						3 7		3 7											
RHEOLOGY θ 600 / θ 300						34		24		34		24							
RHEOLOGY θ 200 / θ 100																			
RHEOLOGY θ 6 / θ 3																			
FILTRATE API (cc's/30 min)						6.8		7.0											
HPHT FILTRATE (cc's/30 min) @				°F															
CAKE THICKNESS API : HPHT (32nd in)						1		1											
SOLIDS CONTENT (% by Volume)						4.9		4.9											
LIQUID CONTENT (% by Volume) OIL/WATER						95.1		95.1											
SAND CONTENT (% by Vol.)						TR		TR											
METHYLENE BLUE CAPACITY (ppb equiv.)						10.0		10.0											
pH						9.0		9.0											
ALKALINITY MUD (Pm)																			
ALKALINITY FILTRATE (Pf / Mf)						0.20		2.00		0.20		2.00							
CHLORIDE (mg/L)						20,000		20,000											
TOTAL HARDNESS AS CALCIUM (mg/L)						1500		1500											
SULPHITE (mg/L)																			
K+ (mg/L)						21,000		21,000											
KCl (% by Wt.)						4.0		4.0											
PHPA (ppb)																			
ECD (ppg)																			

OBSERVATIONS
Inventory correction, wrote off 3 sacks of SAPP.

OPERATIONS SUMMARY
Run and rig down Schlumberger. Lay down BHA. RIH to 1603m. Circulate and wait on Halliburton. Rig up Halliburton and start setting cement plugs as per the abandonment procedure.

Mud Accounting (bbls)						Solids Control Equipment								
FLUID BUILT & RECEIVED			FLUID DISPOSED			SUMMARY			Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)			Desander		INITIAL VOLUME	701	Centrifuge			Desander	2		Shaker #1	110/110/84
Premix (recirc from sump)			Desilter					Degasser		Desilter	10		Shaker #2	140/140/140
Drill Water			Downhole	-24	+ FLUID RECEIVED									
Direct Recirc Sump			Dumped		- FLUID LOST									
Other (eg Diesel)			Other		+ FLUID IN STORAGE									
TOTAL RECEIVED			TOTAL LOST	-24	FINAL VOLUME	725	Desander		Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)			
							Desilter			0				
										0				

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis			Bit Hydraulics & Pressure Data			
Sapp	\$ 69.30	8		3	5	\$ 207.90	%	PPB	Jet Velocity				
							High Grav solids		Impact force				
							Total LGS	4.9	46.0	HHP			
							Bentonite	0.6	5.9	HSI			
							Drilled Solids	4.2	38.3	Bit Press Loss			
							Salt	1.2	11.6	CSG Seat Frac Press			
							n @ 24:00 Hrs	0.50		Equiv. Mud Wt.			
							K @ 24:00 Hrs	5.35		Max Pressure @ Shoe :			
							DAILY COST			CUMULATIVE COST			
							\$207.90			\$35,799.88			

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same.

Depth (ROP avg)	%	Lithology	Gas
590 (1.5)	100	SILTSTONE, light grey, soft to firm, argillaceous, very fine carbonaceous specks.	0.5 (100:0:0:0:0)
600 (1.0)	100	SILTSTONE, a.a. – moderate grey, occasionally grades to very fine sandstone.	2.5 (100:0:0:0:0)
610 (0.9)	100	SILTSTONE, a.a.	3.2 (99:1:0:0:0)
620 (1.0)	100	SILTSTONE, a.a.	3.8 (99:1:0:0:0)
630 (0.9)	100	SILTSTONE, a.a.	3.1 (99:1:0:0:0)
640 (0.8)	100	SILTSTONE, a.a. – light to moderate grey, minor moderate to strongly calcareous, very fine grained sandstone lenses.	4.3 (99:1:0:0:0)
650 (0.9)	100	SILTSTONE, a.a.	4.2 (99:1:0:0:0)
660 (0.9)	100	SILTSTONE, a.a. – slightly calcareous.	2.6 (99:1:0:0:0)
670 (1.0)	100	SILTSTONE, a.a. – minor calcareous and occasional calcite / fossil shell fragments.	3.7 (99:1:0:0:0)
680 (1.4)	100	SILTSTONE, moderate grey to grey-brown, firm, argillaceous, moderately calcareous in part.	2.6 (100:0:0:0:0)
690 (1.4)	100	SILTSTONE, a.a. – moderate to strongly calcareous in part.	2.8 (100:0:0:0:0)
700 (1.6)	100	SILTSTONE, a.a.	5.1 (98:2:0:0:0)
710 (2.0)	100	SILTSTONE, a.a. – grades to claystone in part.	4.9 (99:1:0:0:0)
720 (1.6)	100	SILTSTONE, moderate to dark grey, soft to firm, very argillaceous and grades to claystone, minor brown, hard, silty, calcareous stringers.	5.1 (98:2:0:0:0)
730 (1.7)	100	SILTSTONE, a.a. – moderate to dark grey to grey-brown.	5.2 (98:2:0:0:0)
740 (2.3)	100	SILTSTONE, a.a.	5.4 (98:2:0:0:0)
750 (2.1)	100	SILTSTONE, a.a. – minor calcite grains and silty carbonaceous stringers.	5.2 (97:3:0:0:0)
760 (2.8)	100	SILTSTONE, a.a.	1.7 (100:0:0:0:0)
770 (2.2)	100	SILTSTONE, a.a. – moderate to dark grey to grey-brown, calcareous in part.	5.1 (99:1:0:0:0)
780 (1.8)	100	SILTSTONE, a.a.	5.5 (96:3:0:0:0)
790 (2.4)	100	SILTSTONE, a.a.	4.1 (98:2:0:0:0)
800 (2.7)	100	SILTSTONE, a.a.- moderately calcareous in part.	5.2 (97:3:0:0:0)
810 (2.9)	100	SILTSTONE, a.a.	5.2 (96:3:0:0:0)
820 (2.6)	100	SILTSTONE, a.a.	4.4 (97:3:0:0:0)
830 (2.6)	100	SILTSTONE, a.a.	5.0 (97:3:0:0:0)
840 (3.2)	100	SILTSTONE, a.a.- light to moderate grey to grey-brown, very argillaceous, soft.	4.9 (97:3:0:0:0)
850 (2.7)	100	SILTSTONE, a.a. – minor pale brown, moderately hard glauconitic, calcareous sandstone stringers.	4.7 (97:3:0:0:0)
860 (3.4)	100	SILTSTONE, light to moderate grey, soft, very argillaceous, calcareous in part with calcite / fossil shell fragments.	4.7 (96:4:0:0:0)
870 (3.7)	Tr 100	SANDSTONE, white to pale grey, very fine, sub-angular to sub-rounded, moderate sorted, lithic, glauconitic, feldspathic, moderate to abundant silty clay matrix, moderate to strongly calcareous, friable to moderately hard, very poor porosity. SILTSTONE, moderate grey to grey-brown, soft, argillaceous, minor carbonaceous specks and mica flakes.	4.4 (96:3:1:0:0)

Depth (ROP avg)	%	Lithology	Gas
880 (3.2)	Tr 90 10	SANDSTONE, a.a. SILTSTONE, a.a. – moderate to dark grey to grey-brown. LIMESTONE, pale brown, hard, silty, minor fossil shell fragments.	5.2 (95:3:1:0:0)
890 (3.2)	10 80 10	SANDSTONE, a.a. SILTSTONE, a.a. LIMESTONE, a.a.	5.6 (94:4:2:0:0)
900 (2.6)	Tr 90 10	SANDSTONE, a.a. SILTSTONE, a.a. LIMESTONE, a.a.	5.0 (95:3:2:0:0)
910 (3.8)	Tr 100 Tr	SANDSTONE, a.a. SILTSTONE, a.a. LIMESTONE, a.a.	4.0 (96:2:1:0:0)
920 (2.9)	100	SILTSTONE, moderate to dark grey to grey-brown, firm, rare pyrite and glauconite, trace calcite / fossil shell fragments.	3.3 (97:2:1:0:0)
930 (2.8)	100	SILTSTONE, a.a.	3.0 (99:1:0:0:0)
940 (2.5)	100	SILTSTONE, moderate to dark grey to grey-brown, soft to firm, argillaceous, rare limestone / fossil shell fragments, rare silty glauconitic sandstone lenses.	2.2 (100:0:0:0:0)
950 (2.0)	100	SILTSTONE, a.a. – trace pyrite.	0.9 (100:0:0:0:0)
960 (2.1)	10 90	SANDSTONE, white to pale grey, very fine, sub-rounded, moderate to well sorted, lithic, glauconitic, feldspathic, trace mica, silty clay matrix, moderate calcite cement, friable to moderately hard, very poor porosity. SILTSTONE, a.a. – rare fossil shell fragments.	0.3 (100:0:0:0:0)
970 (1.9)	30 70	SANDSTONE, a.a. SILTSTONE, a.a.	2.6 (99:1:0:0:0)
980 (2.3)	30 70	SANDSTONE, a.a. SILTSTONE, a.a.	4.0 (95:4:1:0:0)
990 (2.5)	30 70	SANDSTONE, a.a. SILTSTONE, a.a.	5.7 (92:5:3:0:0)
1000 (2.6)	10 90	SANDSTONE, a.a. SILTSTONE, a.a. – moderate to dark grey to grey-brown.	6.3 (91:5:4:0:0)
1010 (3.2)	10 90	SANDSTONE, a.a. SILTSTONE, a.a.	6.5 (91:5:4:0:0)
1020 (4.3)	Tr 100	SANDSTONE, a.a. SILTSTONE, a.a.	4.3 (91:5:4:0:0)
1030 (5.2)	100	SILTSTONE, dark grey to grey-brown, soft to firm, argillaceous, rare glauconitic sandstone lenses, trace light brown silty limestone.	5.3 (92:6:2:0:0)
1040 (5.5)	100	SILTSTONE, a.a.	5.3 (87:10:3:0:0)
1050 (3.7)	100	SILTSTONE, a.a.	8.5 (91:5:3:0:0)
1060 (3.6)	100	SILTSTONE, a.a.	10.6 (89:5:4:2:0)
1070 (3.4)	100	SILTSTONE, a.a.	13.7 (88:5:4:3:0)
1080 (2.7)	100	SILTSTONE, a.a. – rare silty / sandy glauconitic, calcareous lenses.	14.3 (87:5:4:4:0)
1083 (2.1)	100	SILTSTONE, a.a. – very dark grey to grey-brown.	11.6 (88:5:4:4:0)
1086 (1.7)	100	SILTSTONE, a.a.	12.8 (88:4:4:4:0)
1089 (1.7)	100	SILTSTONE, a.a.	14.0 (88:4:4:4:0)
1092 (3.0)	100	SILTSTONE, a.a.	13.1 (86:5:4:5:0)
1095 (3.3)	30 70	SANDSTONE, white, very fine to fine, sub-angular, moderate sorted, lithic, feldspathic, trace mica and glauconite, moderate clay matrix, moderately calcareous, friable to moderately hard, poor porosity. SILTSTONE, a.a.	13.8 (86:5:4:5:0)

Depth (ROP avg)	%	Lithology	Gas
1098 (4.1)	60 40	SANDSTONE, a.a. SILTSTONE, a.a. – also light to moderate brown, firm, sub-fissile, lithic, feldspathic, micro-micaceous and carbonaceous in part.	12.5 (87:5:4:5:0)
1101 (4.2)	60 40	SANDSTONE, white to pale grey, very fine to fine, sub-angular to sub-rounded, moderate sorted, lithic, feldspathic, trace mica flakes, moderate clay matrix, calcareous, friable, poor porosity. SILTSTONE, light brown, firm, sub-fissile, micro-micaceous, carbonaceous specks; also dark brown to grey-brown, argillaceous and grades to claystone.	18.8 (86:5:4:6:0)
1104 (3.5)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	13.4 (87:5:4:5:0)
1107 (3.9)	60 40	SANDSTONE, a.a. SILTSTONE, a.a.	9.2 (88:4:3:4:0)
1110 (3.6)	50 50	SANDSTONE, a.a. SILTSTONE, a.a.	6.3 (89:8:2:1:0)
1113 (3.8)	70 30	SANDSTONE, white to off white, very fine to fine, occasionally medium and coarse, sub-rounded, moderate sorted, minor lithics, feldspar and carbonaceous material, trace mica flakes, moderate dispersive clay matrix, moderate to strongly calcareous, friable to moderately hard, poor porosity. SILTSTONE, a.a. Trace dull yellow fluorescence, no cut.	13.1 (94:4:1:0:0)
1116 (3.8)	80 20	SANDSTONE, a.a. SILTSTONE, a.a. 5% dull yellow fluorescence, no cut.	10.3 (91:6:2:1:0)
1119 (4.5)	80 20	SANDSTONE, a.a. SILTSTONE, a.a. Trace dull yellow fluorescence, no cut.	16.5 (88:4:3:4:0)
1122 (3.7)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	16.7 (88:4:3:5:0)
1125 (3.1)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	16.6 (92:4:2:2:0)
1128 (3.8)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	20.8 (89:4:3:4:0)
1131 (3.3)	80 20	SANDSTONE, a.a. SILTSTONE, a.a.	17.7 (89:4:3:4:0)
1134 (2.9)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	18.6 (89:4:3:4:0)
1137 (4.0)	70 30	SANDSTONE, a.a. SILTSTONE, a.a.	21.5 (89:4:3:4:0)
1140 (3.9)	60 40	SANDSTONE, a.a. – predominantly very fine and grades to siltstone. SILTSTONE, light brown, light grey, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks, grades to very fine sandstone in part.	15.1 (89:4:3:3:0)
1143 (3.6)	30 70	SANDSTONE, a.a. – very fine, silty. SILTSTONE, a.a.	13.4 (94:4:2:0:0)
1146 (3.8)	20 80	SANDSTONE, a.a. SILTSTONE, a.a.	5.2 (95:4:1:0:0)
1149 (4.1)	Tr 100	SANDSTONE, a.a. SILTSTONE, a.a.	5.0 (96:4:0:0:0)
1152 (3.5)	Tr 100	SANDSTONE, a.a. SILTSTONE, a.a.	4.4 (97:3:0:0:0)
1155 (4.8)	Tr 90 10	SANDSTONE, a.a. SILTSTONE, a.a. LIMESTONE, white to pale yellowish white, cryptocrystalline.	3.2 (97:3:0:0:0)
1158 (3.0)	Tr 100 Tr	SANDSTONE, a.a. SILTSTONE, a.a. LIMESTONE, a.a.	3.9 (96:3:0:0:0)
1161 (3.0)	100 Tr	SILTSTONE, a.a. LIMESTONE, a.a.	4.4 (98:2:0:0:0)
1164 (2.6)	100	SILTSTONE, a.a.	3.9 (96:4:0:0:0)
1167 (3.0)	100	SILTSTONE, a.a.	3.8 (96:4:0:0:0)
1170 (2.8)	100	SILTSTONE, light brown, light to dark grey, firm, sub-fissile, micro-micaceous, carbonaceous specks, moderate to strongly calcareous in part.	4.9 (96:4:0:0:0)

Depth (ROP avg)	%	Lithology	Gas
1173 (2.6)	20 80	SANDSTONE, white, very fine to fine, occasionally medium, sub-rounded, moderate sorted, dispersive clay matrix, friable, fair porosity. SILTSTONE, a.a.	5.0 (96:4:0:0)
1176 (3.1)	40 60	SANDSTONE, a.a. SILTSTONE, a.a.	5.7 (95:4:0:0)
1179 (4.4)	40 60	SANDSTONE, a.a. SILTSTONE, a.a.	4.2 (96:4:0:0)
1182 (4.7)	70 30	SANDSTONE, white, very fine, minor fine to medium, sub-rounded, moderate sorted, rare mica flakes and lithics, moderate clay matrix, calcareous in part, weak silica cement, poor to fair porosity. SILTSTONE, light to dark grey, grey-brown, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks.	4.7 (96:4:0:0)
1185 (3.8)	70 30	SANDSTONE, a.a. SILTSTONE, a.a. Trace moderately bright bluish white fluorescence, slow cut with thin white residue ring.	7.8 (94:5:2:0)
1188 (3.9)	80 20	SANDSTONE, a.a. SILTSTONE, a.a. 2% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	6.1 (95:4:1:0)
1191 (3.0)	90 10	SANDSTONE, a.a. – fair to occasional good porosity. SILTSTONE, a.a. 5% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	16.4 (95:4:1:0)
1194 (2.0)	90 10	SANDSTONE, a.a. SILTSTONE, a.a. 10% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	17.1 (89:5:3:3)
1197 (3.4)	90 10	SANDSTONE, a.a. – predominantly very fine to fine, moderate clay matrix, calcareous in part, weak silica cement, fair to occasional good porosity. SILTSTONE, a.a. 10% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	5.3 (96:4:0:0)
1200 (4.2)	90 10	SANDSTONE, a.a. SILTSTONE, a.a. 10% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	5.9 (95:4:0:0)
1203 (4.8)	90 10	SANDSTONE, a.a. SILTSTONE, a.a. 5% moderately bright bluish white fluorescence, slow cut with thin white residue ring.	5.6 (94:5:1:0)
1206 (4.6)	90 10	SANDSTONE, clear to translucent, very fine to medium, sub-rounded, moderate sorted, dispersive white clay matrix, friable to loose, fair to good inferred porosity. SILTSTONE, a.a. Trace moderately bright bluish white fluorescence, slow cut with thin white residue ring.	5.2 (95:5:1:0)
1209 (5.3)	70 30	SANDSTONE, white, very fine, occasional medium to coarse, sub-angular to sub-rounded, moderate sorted, trace mica flakes and lithics, moderate clay matrix, calcareous in part, moderate silica cement, friable to moderately hard, poor to fair porosity. SILTSTONE, a.a. – trace silty limestone laminae.	5.5 (95:5:0:0)
1212 (6.3)	50 50	SANDSTONE, a.a. SILTSTONE, light to moderate grey, light to moderate brown, grey-brown, firm, sub-fissile to sub-blocky, micro-micaceous, carbonaceous specks.	5.0 (95:4:2:0)
1215 (5.5)	40 60	SANDSTONE, a.a. SILTSTONE, a.a.	5.3 (96:3:1:0)
1218 (6.0)	20 80	SANDSTONE, a.a. SILTSTONE, a.a.	4.0 (97:3:0:0)
1221 (6.0)	30 70	SANDSTONE, a.a. SILTSTONE, a.a.	3.5 (96:4:0:0)
1224 (5.6)	20 80	SANDSTONE, a.a. SILTSTONE, a.a.	4.3 (96:4:0:0)

Depth (ROP avg)	%	Lithology	Gas
1227 (4.3)	50 50	SANDSTONE, white, pale grey, fine to medium, sub-angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, fair porosity. SILTSTONE, a.a.	6.5 (94:5:1:0:0)
1230 (4.5)	90 10	SANDSTONE, clear to translucent, fine to medium, some coarse, sub-angular to sub-rounded, poor to moderate sorted, loose quartz grains, fair to good porosity. SILTSTONE, a.a.	4.4 (95:5:0:0:0)
1233 (2.6)	100	SANDSTONE, a.a. – predominantly fine to coarse, sub-angular to sub-rounded, moderate sorted, trace mica flakes, loose, good porosity.	3.3 (99:1:0:0:0)
1236 (1.8)	100	SANDSTONE, a.a.	2.3 (98:2:0:0:0)
1239 (2.1)	100	SANDSTONE, clear to translucent, predominantly medium to coarse, sub-rounded, moderate to well sorted, trace quartz overgrowths / crystal faces, trace mica flakes, loose, good porosity.	2.2 (97:3:0:0:0)
1242 (6.0)	100	SANDSTONE, a.a.	1.8 (99:1:0:0:0)
1245 (3.5)	80 20	SANDSTONE, white to off white, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate white clay matrix, weak to moderate silica cement, friable to moderately hard, fair to good porosity; also abundant loose medium to coarse quartz grains. SILTSTONE, moderate grey to grey-brown, light brown, firm, sub-fissile, carbonaceous.	2.5 (98:2:0:0:0)
1248 (3.5)	60 40	SANDSTONE, a.a. – fair porosity. SILTSTONE, a.a.	2.0 (98:2:0:0:0)
1251 (5.5)	20 80	SANDSTONE, a.a. SILTSTONE, light to dark brown, firm, sub-fissile, micro-micaceous, carbonaceous specks, lithic and sandy in part; also moderate to dark grey, firm, argillaceous.	0.8 (99:1:0:0:0)
1254 (5.3)	60 40	SANDSTONE, a.a. – fair porosity. SILTSTONE, a.a.	2.8 (96:3:0:0:0)
1257 (4.9)	40 60	SANDSTONE, a.a. SILTSTONE, a.a.	1.2 (97:3:0:0:0)
1260 (4.7)	80 20	SANDSTONE, clear to translucent, very fine to medium, occasionally coarse, sub-angular to sub-rounded, moderate sorted, minor dispersive clay matrix, loose, fair to good porosity. SILTSTONE, a.a.	0.9 (99:1:0:0:0)
1263 (3.7)	100	SANDSTONE, clear to translucent, medium to very coarse, sub-rounded, moderate to well sorted, trace quartz overgrowths / crystal faces, loose, good porosity.	0.7 (100:0:0:0:0)
1266 (5.2)	100	SANDSTONE, a.a.	3.2 (97:3:0:0:0)
1272 (4.4)	100 Tr	SANDSTONE, a.a. – fine to coarse. SILTSTONE, a.a.	3.2 (97:3:0:0:0)
1278 (3.9)	100	SANDSTONE, translucent, fine to coarse, angular to sub-rounded, moderate sorted, trace quartz overgrowths / crystal faces, no visible matrix or cement, good porosity.	4.7 (97:3:0:0:0)
1284 (4.1)	100 Tr	SANDSTONE, a.a. – medium to very coarse, sub-angular to sub-rounded, good porosity. SILTSTONE, light to moderate brown, firm, argillaceous, micro-micaceous, carbonaceous specks, rare lithics.	4.7 (97:3:0:0:0)
1290 (3.1)	100	SANDSTONE, a.a. – medium to very coarse, sub-rounded, moderate to well sorted, good porosity.	12.5 (96:4:1:0:0)
1296 (3.7)	100 Tr	SANDSTONE, a.a. – fine to medium, some coarse, sub-angular to sub-round, moderate sorted, minor dispersive clay matrix and weak silica cement. SILTSTONE, a.a.	9.8 (93:5:2:0:0)
1299 (4.4)	60 40	SANDSTONE, a.a. SILTSTONE, moderate to dark grey, firm, sub-fissile, argillaceous; also some light brown, sub-fissile, micro-micaceous, carbonaceous specks.	15.8 (93:5:2:0:0)
1302 (5.2)	80 20	SANDSTONE, a.a. – medium to very coarse, good porosity. SILTSTONE, a.a.	15.6 (92:5:2:1:0)
1308 (4.8)	80 20	SANDSTONE, a.a. – very fine to medium, good porosity. SILTSTONE, a.a.	12.5 (93:5:2:0:0)

Depth (ROP avg)	%	Lithology	Gas
1314 (8.2)	50 50	SANDSTONE, a.a. – fine to medium, occasionally coarse, fair to good porosity. SILTSTONE, a.a. – also light brown, arenaceous, silicified.	10.0 (92:6:2:0:0)
1317 (6.8)	40 60	SANDSTONE, a.a. SILTSTONE, a.a. – calcareous in part.	7.8 (93:5:2:0:0)
1323 (3.2)	100	SANDSTONE, translucent, fine to coarse, sub-angular, moderate sorted loose quartz grains, trace mica flakes, good porosity. SILTSTONE, a.a.	6.1 (98:1:1:0:0)
1329 (4.1)	100	SANDSTONE, a.a. SILTSTONE, a.a.	4.7 (100:0:0:0:0)
1335 (3.9)	100	SANDSTONE, a.a. SILTSTONE, a.a.	6.8 (100:0:0:0:0)
1341 (3.7)	100	SANDSTONE, a.a.	6.1 (100:0:0:0:0)
1344 (4.2)	100	SANDSTONE, a.a.	2.0 (100:0:0:0:0)
1350 (4.6)	100	SANDSTONE, a.a. – sub-rounded.	1.9 (99:1:0:0:0)
1356 (5.4)	100	SANDSTONE, a.a.	1.1 (100:0:0:0:0)
1359 (5.3)	100	SANDSTONE, translucent, fine to coarse, angular to sub-angular, moderate sorted, loose quartz grains, good porosity.	4.3 (97:3:0:0:0)
1365 (5.4)	100	SANDSTONE, a.a.	5.0 (100:0:0:0:0)
1368 (7.7)	100	SANDSTONE, a.a. – occasional quartz overgrowths / crystal faces.	4.1 (97:3:0:0:0)
1374 (7.1)	70 30	SANDSTONE, a.a. SILTSTONE, light to moderate brown, firm, argillaceous, minor mica flakes and carbonaceous material.	7.0 (96:4:0:0:0)
1380 (4.4)	100	SANDSTONE, a.a. – fine to very coarse, angular to sub-rounded.	3.2 (99:1:0:0:0)
1386 (4.5)	100	SANDSTONE, a.a. – fine to coarse.	3.6 (100:0:0:0:0)
1392 (4.2)	100	SANDSTONE, a.a.	6.3 (98:2:0:0:0)
1398 (4.3)	100	SANDSTONE, a.a.	8.9 (97:3:0:0:0)
1404 (4.4)	100	SANDSTONE, a.a.	5.6 (96:4:0:0:0)
1410 (4.2)	100	SANDSTONE, a.a. – fine to medium, sub-rounded, moderate sorted loose quartz grains, good porosity.	9.0 (92:6:2:0:0)
1416 (5.1)	100	SANDSTONE, a.a. – sub-angular to sub-rounded.	8.3 (92:6:2:0:0)
1422 (4.1)	100	SANDSTONE, a.a.	17.3 (89:8:3:0:0)
1428 (4.5)	100	SANDSTONE, a.a. – fine to coarse, angular to sub-rounded.	5.2 (96:4:0:0:0)
1434 (4.9)	100	SANDSTONE, a.a.	7.4 (98:1:0:0:0)
1440 (5.7)	100 Tr	SANDSTONE, a.a. SILTSTONE, light brown, firm, sub-fissile, micro-micaceous, carbonaceous.	6.2 (96:4:0:0:0)
1446 (6.1)	100 Tr	SANDSTONE, a.a. SILTSTONE, a.a. – light to dark brown, carbonaceous.	17.1 (90:7:3:0:0)
1449 (19.2)	90 10	SANDSTONE, a.a. SILTSTONE, moderate to dark brown, moderate to dark grey-brown, firm, dispersive in part and grades to claystone, argillaceous, abundant carbonaceous material, micro-micaceous in part.	5.7 (82:12:5:0:0)
1452 (12.1)	50 50	SANDSTONE, a.a. SILTSTONE, a.a. – very argillaceous, dispersive and grades to claystone in part.	13.1 (79:12:8:1:0)
1455 (11.2)	30 70	SANDSTONE, a.a. – probable caving. SILTSTONE, a.a.	7.5 (78:13:9:0:0)

Depth (ROP avg)	%	Lithology	Gas
1456 (10.3)	80 20	SANDSTONE, white, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, weak to moderate silica cement, friable to moderately hard, poor to fair with occasional good porosity. SILTSTONE, a.a. 100% moderate bright to bright yellow-white fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.	21.6 (74:13:10:4:0)
1457 (8.8)	30 70	SANDSTONE, a.a. SILTSTONE, a.a. 20% fluorescence, a.a.	7.0 (72:13:10:5:0)
1458 (8.8)	40 60	SANDSTONE, a.a. – predominantly very fine, moderate to abundant clay matrix, silty, moderately hard, poor porosity. SILTSTONE, a.a. – light to moderate brown, moderate to dark grey-brown, soft to firm, argillaceous, dispersive, carbonaceous specks, occasionally grades to very fine argillaceous sandstone. 10% fluorescence, a.a.	6.0 (72:13:10:5:0)
1459 (9.9)	10 90	SANDSTONE, a.a. SILTSTONE, a.a. – trace coal specks. Tr fluorescence, a.a.	12.9 (75:14:9:2:0)
1460 (8.4)	20 80	SANDSTONE, a.a. SILTSTONE, a.a. 10% fluorescence, a.a.	10.2 (77:14:9:0:0)
1461 (5.9)	30 70	SANDSTONE, translucent to white, very fine to coarse, sub-rounded, poorly sorted, dispersive clay matrix, weak silica cement, friable, poor to fair porosity. SILTSTONE, a.a. 10% fluorescence, a.a.	11.7 (77:14:9:0:0)
1462 (8.3)	30 70 Tr	SANDSTONE, a.a. SILTSTONE, a.a. COAL, very dark brown to black, dull to sub-vitreous lustre. 20% fluorescence, a.a.	7.9 (77:14:9:0:0)
1463 (9.5)	10 90	SANDSTONE, a.a. SILTSTONE, moderate to dark brown to reddish brown, soft to firm, very argillaceous and grades to claystone, minor carbonaceous / coal material. Tr fluorescence, a.a.	15.7 (76:14:9:1:0)
1464 (9.3)	20 60 20	SANDSTONE, a.a. SILTSTONE, a.a. CLAYSTONE, white, soft, occasionally sandy with very fine quartz grains. 10% fluorescence, a.a.	12.1 (74:14:9:3:0)
1465 (7.85)	70 20 10	SANDSTONE, translucent white, very fine to fine, sub-angular to sub-rounded, moderate sorted, minor white clay matrix, weak silica cement, friable to loose, fair to good porosity. SILTSTONE, a.a. CLAYSTONE, a.a. 60% very dull to minor moderate bright fluorescence, moderate blooming cut, moderately bright yellow-white residue ring.	30.2 (72:14:10:5:0)
1467 (4.6)	100	SANDSTONE, translucent, fine to coarse, angular to sub-rounded, moderate sorted, loose quartz grains, good porosity.	57.0 (64:13:10:9:4)
1470 (3.9)	100	SANDSTONE, a.a.	43.2 (70:13:8:7:2)
1473 (4.6)	100 Tr	SANDSTONE, translucent, fine to coarse, angular, moderate sorted, loose quartz grains, good porosity. SILTSTONE, a.a.	30.0 (75:13:7:5:0)
1476 (6.5)	100	SANDSTONE, a.a. – angular to sub-angular, trace quartz overgrowths / crystal faces, good porosity.	23.5 (81:10:6:2:0)
1482 (4.9)	100	SANDSTONE, a.a. – medium to coarse, good porosity.	11.9 (80:13:8:0:0)
1485 (6.6)	100	SANDSTONE, a.a.	5.4 (86:13:1:0:0)
1491 (4.2)	100	SANDSTONE, a.a. – medium to very coarse, angular to sub-angular loose quartz grains, good porosity.	9.2 (99:1:0:0:0)
1497 (3.3)	100	SANDSTONE, a.a. – fine to very coarse.	7.7 (99:1:0:0:0)

Depth (ROP avg)	%	Lithology	Gas
1500 (6.4)	30 70	SANDSTONE, translucent to white, very fine to fine, sub-angular to sub-rounded, moderate sorted, trace carbonaceous specks and mica flakes, trace quartz overgrowths / crystal faces, minor to moderate clay matrix, weak silica cement, friable, fair to good porosity. SILTSTONE, moderate to dark grey to grey-brown, firm, sub-fissile, abundant carbonaceous material and micro-laminae.	29.3 (85:11:4:0:0)
1503 (6.5)	30 70	SANDSTONE, a.a. SILTSTONE, a.a.	9.6 (85:11:4:0:0)
1506 (8.3)	100	SILTSTONE, very dark grey/grey-brown to black, firm to moderately hard, sub-fissile to sub-blocky, abundant very fine dispersive carbonaceous material.	13.4 (81:14:5:0:0)
1509 (9.6)	100	SILTSTONE, a.a.	11.8 (79:15:7:0:0)
1512 (8.7)	100	SILTSTONE, a.a.	15.7 (78:15:7:0:0)
1515 (9.5)	100	SILTSTONE, a.a.	19.9 (78:16:7:0:0)
1518 (7.8)	10 90	SANDSTONE, white to off white, to pale brown, very fine, sub-angular to sub-rounded, moderate sorted, trace carbonaceous specks, silty in part, moderate clay matrix, moderate silica cement, moderately hard, very poor porosity. SILTSTONE, a.a.	29.4 (79:15:6:0:0)
1521 (9.7)	30 70	SANDSTONE, a.a. – very poor to occasional fair porosity. SILTSTONE, a.a.	37.8 (78:16:6:0:0)
1524 (6.2)	30 70	SANDSTONE, white to off white, very fine to fine, trace medium to very coarse, sub-angular to sub-rounded, moderate sorted, trace quartz overgrowths / crystal faces, minor to abundant clay matrix, weak silica cement, friable, poor to good porosity. - 70% dull to moderately bright yellow-white fluorescence, instant blooming cut, moderate to thick yellow-white residue ring. SILTSTONE, moderate to dark grey, grey-black, firm, sub-fissile, argillaceous, carbonaceous.	67.2 (77:16:6:1:0)
1527 (3.8)	100 Tr	SANDSTONE, fine to medium, some coarse to very coarse, sub-angular to sub-rounded, poor to moderate sorted, rare quartz overgrowths / crystal faces, minor to moderate clay matrix, weak silica cement, friable, minor poor, predominantly fair to good porosity. - 100% moderately bright fluorescence a.a. SILTSTONE, a.a.	84.1 (72:15:8:5:0)
1530 (4.0)	40 10 50	SANDSTONE, a.a. – 100% fluorescence a.a. SILTSTONE, a.a. COAL, black, dull to sub-vitreous lustre, striated and minor fractures with gas bleeding.	120.8 (70:15:8:5:1)
1533 (6.1)	20 80	SANDSTONE, a.a. – 100% fluorescence a.a. COAL, a.a.	196.8 (85:12:3:1:0)
1536 (8.6)	100	SILTSTONE, moderate to dark grey, firm, sub-fissile to sub-blocky, argillaceous, common carbonaceous material and laminae.	54.8 (76:16:6:2:0)
1539 (7.3)	70 30	SANDSTONE, translucent white, medium to very coarse, sub-rounded, moderate sorted, loose quartz grains, minor fine grained aggregates, good apparent porosity. - 5% fluorescence a.a. SILTSTONE, light to moderate red-brown, moderate to dark grey, firm, argillaceous, carbonaceous.	114.0 (81:13:4:2:0)
1542 (7.4)	100	SILTSTONE, light to dark grey, firm, sub-fissile, argillaceous, abundant carbonaceous material, trace mica flakes and fine quartz grains.	54.1 (80:14:5:1:0)
1545 (4.3)	90 10	SANDSTONE, translucent white to very pale translucent brown, fine to coarse, sub-angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, fair to good porosity. - 40% dull to moderately bright yellow-white fluorescence, slow blooming cut and moderately bright bluish white residue ring. SILTSTONE, a.a.	115.2 (79:14:5:2:0)
1548 (6.0)	90 10	SANDSTONE, a.a. – predominantly fine to medium. - 30% fluorescence, a.a. SILTSTONE, a.a.	45.0 (78:14:6:3:0)
1551 (4.0)	20 80	SANDSTONE, a.a.. - 25% fluorescence, a.a. SILTSTONE, light to moderate grey, dark grey, firm, argillaceous, very carbonaceous with common carbonaceous laminae, minor mica flakes.	257.0 (85:12:2:1:0)

Depth (ROP avg)	%	Lithology	Gas
1554 (3.2)	20 80	SANDSTONE, a.a. - 25% fluorescence, a.a. SILTSTONE, a.a.	81.2 (83:12:4:1:0)
1557 (6.7)	20 80	SANDSTONE, translucent, medium to coarse, sub-rounded, moderate sorted, loose quartz grains, good inferred porosity. - Tr fluorescence, a.a. SILTSTONE, moderate to dark brown, red-brown, light to dark grey, firm, sub-fissile, carbonaceous, micro-micaceous.	59.9 (81:14:4:0:0)
1560 (7.2)	30 70	SANDSTONE, off white, very fine to fine, occasionally medium, sub-angular to sub-rounded, moderate sorted, moderate to abundant clay matrix, moderate silica cement, moderately hard, poor porosity. - Tr fluorescence, a.a. SILTSTONE, a.a.	68.0 (84:12:3:1:0)
1563 (3.2)	100	SANDSTONE, translucent, medium to very coarse, angular, moderate sorted, loose quartz grains, occasional quartz overgrowths / crystal faces, good porosity. Nil fluorescence.	51.8 (84:12:3:0:0)
1566 (3.1)	100	SANDSTONE, a.a. sub-angular to sub-rounded, good porosity.	31.4 (82:14:5:0:0)
1569 (6.6)	100 Tr	SANDSTONE, a.a. – medium to coarse, occasional very coarse, good porosity. COAL, a.a.	88.6 (84:12:4:0:0)
1572 (6.0)	40 60	SANDSTONE, a.a. – also pale translucent brown, very fine to fine, sub-angular to sub-rounded, moderate sorted, moderate clay matrix, moderate silica cement, moderately hard, poor to fair porosity. SILTSTONE, a.a.	28.9 (82:14:5:0:0)
1575 (3.2)	100	SANDSTONE, translucent, fine to medium, occasional coarse, sub-rounded, moderate sorted, loose quartz grains, good porosity.	24.8 (85:12:4:0:0)
1578 (5.0)	50 50	SANDSTONE, a.a. SILTSTONE, a.a.	71.9 (86:11:3:0:0)
1581 (7.2)	70 30	SANDSTONE, a.a. – fair to good porosity. SILTSTONE, a.a.	63.1 (85:12:3:0:0)
1584 (6.4)	70 30	SANDSTONE, a.a. – fine to very coarse, angular to sub-angular, poorly sorted, fair to good porosity. SILTSTONE, a.a.	70.6 (86:11:3:0:0)
1587 (5.7)	60 20 20	SANDSTONE, a.a. – minor dispersive clay matrix, predominantly loose quartz grains, fair to good porosity. SILTSTONE, a.a. – very carbonaceous and grades to coal in part. COAL, black, dull to sub-vitreous lustre, grades to very carbonaceous shale.	48.4 (85:12:3:0:0)
1590 (5.7)	100 Tr	SANDSTONE, translucent white, white to cream, fine to coarse, angular to sub-rounded, poor to moderate sorted, minor clay matrix, weak silica cement, friable, poor porosity. SILTSTONE, a.a.	8.7 (89:8:3:0:0)
1593 (5.2)	100 Tr	SANDSTONE, a.a. SILTSTONE, a.a.	18.0 (90:8:2:0:0)
1596 (5.8)	100	SANDSTONE, white with some pale pinkish brown, very fine to fine, angular to sub-rounded, moderate to well sorted, trace pyrite, abundant white dispersive clay matrix, weak to moderate and occasional strong silica cement, friable to moderately hard and hard where well cemented, poor porosity.	7.0 (92:8:0:0:0)
1599 (3.6)	100	SANDSTONE, a.a.	7.8 (94:6:0:0:0)
1602 (3.1)	100	SANDSTONE, a.a.	9.1 (94:6:0:0:0)
1605 (5.8)	100	SANDSTONE, a.a.	7.5 (93:6:0:0:0)
1608 (5.0)	100	SANDSTONE, a.a.	6.3 (93:7:0:0:0)
1611 (5.8)	100	SANDSTONE, a.a.	3.8 (93:7:0:0:0)
1614 (5.3)	100	SANDSTONE, a.a.	4.2 (93:7:0:0:0)
1617 (4.4)	100	SANDSTONE, a.a.	4.4 (93:7:0:0:0)
1620 (4.6)	100	SANDSTONE, a.a.	3.8 (93:7:0:0:0)
1623 (4.6)	100	SANDSTONE, a.a.	2.1 (93:7:0:0:0)

Depth (ROP avg)	%	Lithology	Gas
1626 (6.2)	100	SANDSTONE, a.a.	1.8 (92:8:0:0:0)
1629 (4.3)	90 10	SANDSTONE, a.a. SILTSTONE, low grade metamorphosed pale bluish grey, hard, angular fracture, siliceous.	2.4 (93:7:0:0:0)
1630 (8.4)	40 60	SANDSTONE, a.a. SILTSTONE, a.a.	0.4 (93:7:0:0:0)
		TD of 1630m. (driller) @ 1530 hours 9th April 2007	



Formation Evaluation Quick look

- Products: • Interactive Petrophysics*
- Company: • Beach Petroleum
- Well(s): • Kewarra - 1 (8 ½" Section)
- Interval: • 1438m to 1493m MD
- Analysis Date: • October 19, 2007
-
- Logging Date: • April 10, 2007
- Location: • Schlumberger Data Services Centre
 • Melbourne, Victoria
- Analyst(s): • Ashish Datey
-
- Logging Engineer: • Michael Morse / Ashraf Dandi

Prepared by:
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* Mark of Schlumberger



Executive Summary

Possible hydrocarbon zone in top Hutton was identified. This zone was not tested.

A conventional straddle test (DST 1) was performed in the Patchawarra Formation (1520m – 1536m) resulting in recovery of 60 bbls of formation water from the drill string and the down-hole sample chamber.

The well was plugged and abandoned.

The tables below summarise the interpreted logs.

Reservoir SUMMARY

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	Phiso*H
1	Namur	1438.00	1443.90	5.90	5.90	1.000	0.196	0.971	0.014	1.16	0.03
2	Birkhead	1443.90	1466.20	22.30	10.31	0.462	0.147	0.982	0.300	1.52	0.03
3	Hutton	1466.20	1493.02	26.82	\$25.52	0.952	0.198	0.968	0.062	5.05	0.16
	All Zones	1438.00	1493.02	55.02	\$41.73	0.759	0.185	0.971	0.114	7.72	0.22

Pay SUMMARY

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	Phiso*H
1	Namur	1438.00	1443.90	5.90	0.00	0.000	---	---	---	---	---
2	Birkhead	1443.90	1466.20	22.30	0.08	0.004	0.191	0.508	0.174	0.02	0.01
3	Hutton	1466.20	1493.02	26.82	\$0.38	0.014	0.237	0.501	0.025	0.09	0.04
	All Zones	1438.00	1493.02	55.02	\$0.46	0.008	0.229	0.502	0.052	0.10	0.05

CUTOFFS USED

Zn #	Zone Name	Top	Bottom	Min. Height	Phi PHIE	Sw SW	Vcl VWCL
	Reservoir						
1	Namur	1438.00	1443.90	0.	>= 0.1		<= 0.4
2	Birkhead	1443.90	1466.20	0.	>= 0.1		<= 0.4
3	Hutton	1466.20	1493.02	0.	>= 0.1		<= 0.4
	Pay						
1	Namur	1438.00	1443.90	0.25	>= 0.1	<= 0.6	<= 0.4
2	Birkhead	1443.90	1466.20	0.25	>= 0.1	<= 0.6	<= 0.4
3	Hutton	1466.20	1493.02	0.25	>= 0.1	<= 0.6	<= 0.4

Figure 1 : Evaluation results in Hutton

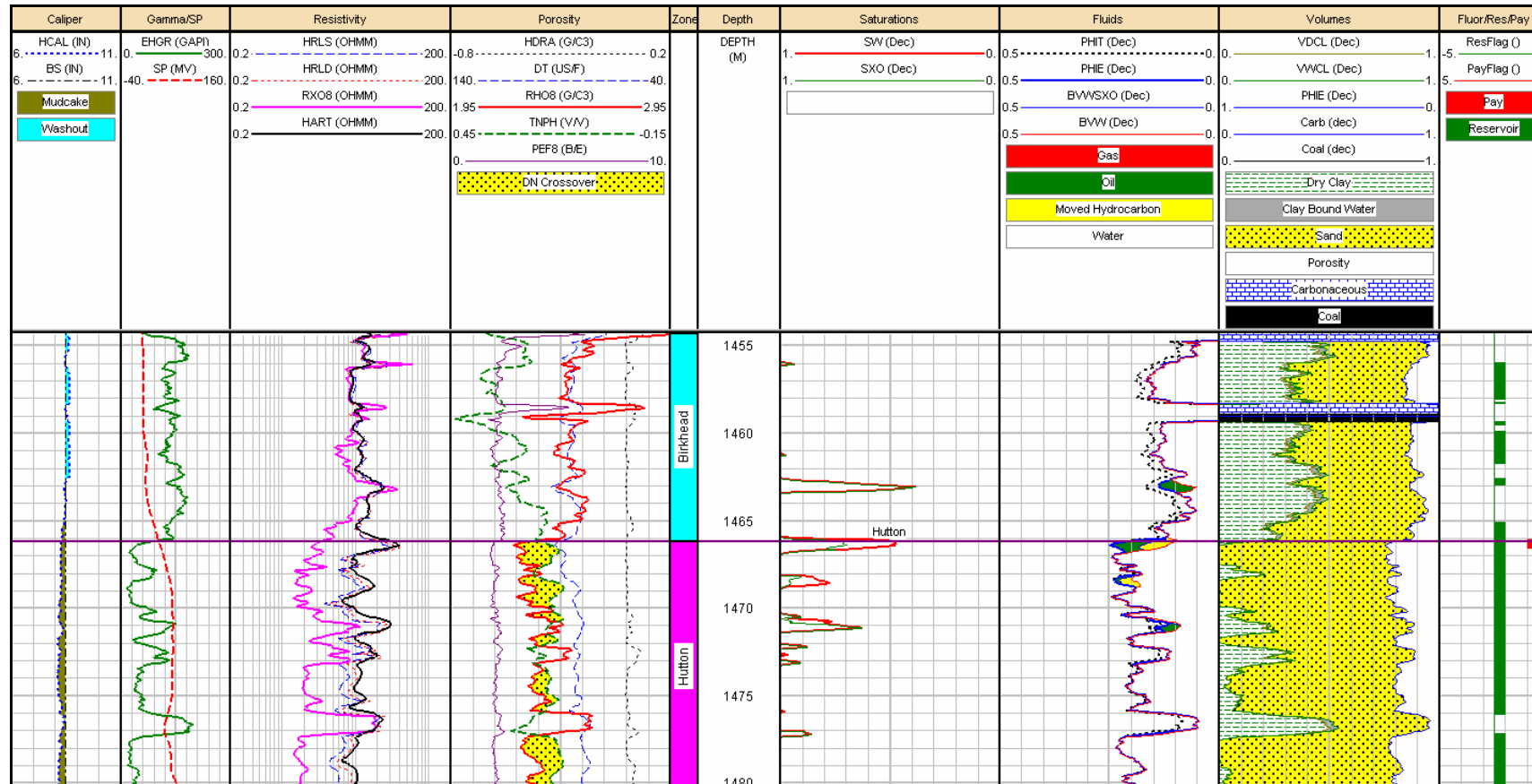


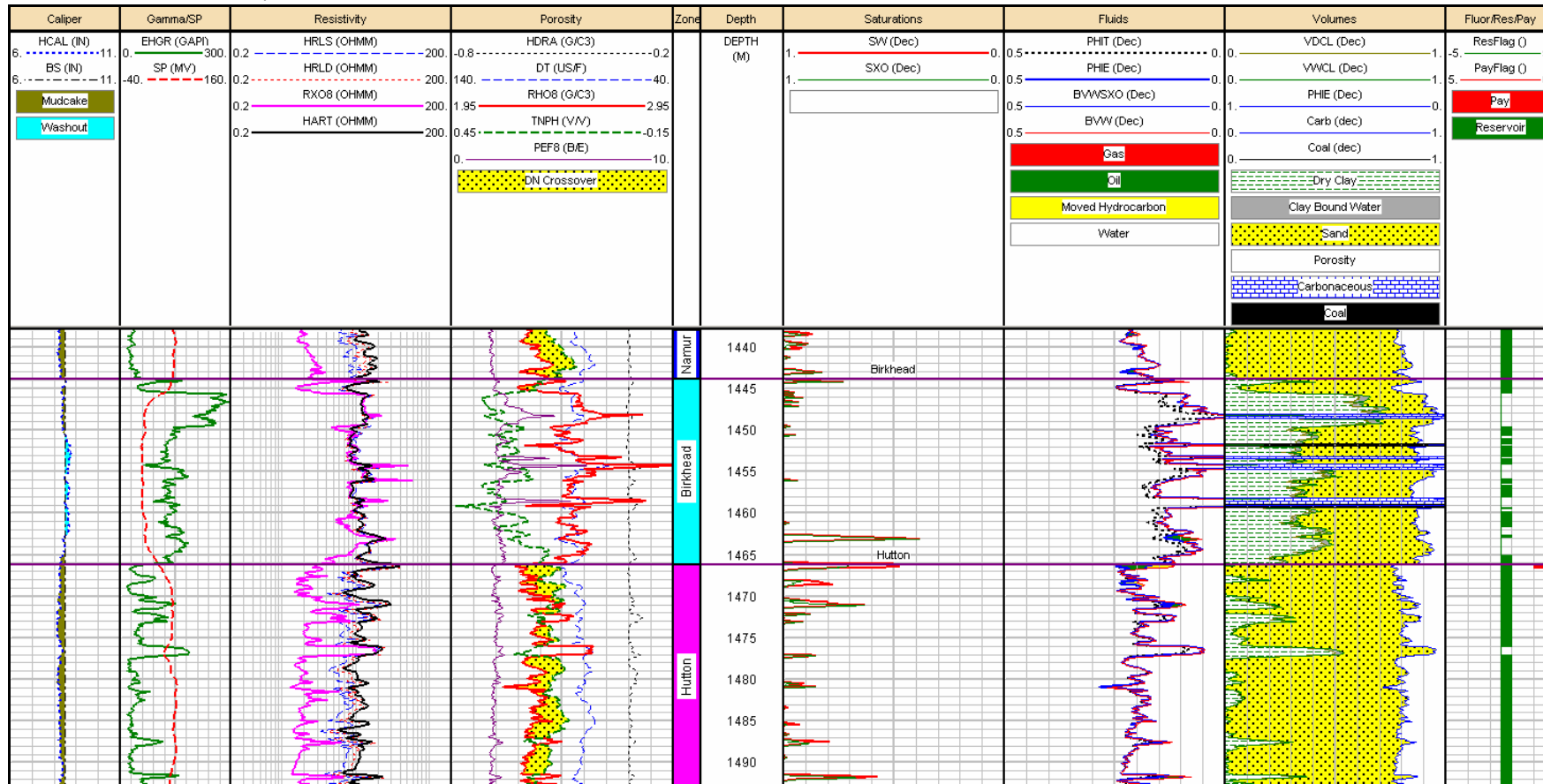


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Results

Figure 2, Formation Evaluation Results, 1:500





Methodology

Logs were recorded in open hole from TD to casing shoe. GR, nuclear, resistivity and sonic logs were recorded from Birkhead to Hutton. Logs evaluation was done from the high resolution data. The open hole data was analysed using the Schlumberger evaluation package, Interactive Petrophysics (IP*). This graphically interactive package uses deterministic methods to quickly evaluate acquired log data.

General Information

The following general information and parameters were taken from field logs and tapes:

Well Data

Company Name	Beach Petroleum Limited		CN
Well Name	Kewarra-1		WN
Field Name	Exploration		FN
Rig:	Hunt Rig 2		CLAB, COUN
State:	Queensland		SLAB, STAT
Nation	Australia		NATI
Field Location	Gidgee 3-D Seismic Survey		FL
			FL1
Longitude	141*08'48.96" E		LONG
Latitude	28*30'40.79" S		LATI
Maximum Hole Deviation	1.5 (deg)		MHD
Elevation of Kelly Bushing	116.8(m)		EKB
Elevation of Ground Level	113.0 (m)		EGL
Elevation of Derrick Floor	116.8 (m)		EDF
Permanent Datum	AHD	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rotary Table	Above Permanent Datum 116.8 (m)	LMF, APD
Drilling Measured From	Rotary Table		DMF

Absent Valued Parameters: CN1, CONT, FL2, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month-Day-Year	10-Apr-2007		DATE
Run Number	1		RUN
Total Depth - Driller	1630 (m)		TDD
Total Depth - Logger	1631.2 (m)		TDL
Bottom Log Interval	1628.9 (m)		BLI
Top Log Interval	577.3 (m)		TLI
Current Casing Size	9.63 (in)		CSIZ
Casing Weight	36.0 (lbm/ft)		CWEI
Bit Size	8.50 (in)		BS
Date Logger At Bottom	10-Apr-2007	Time Logger At Bottom 01:00	DLAB, TLAB



Logging Unit Number	3170	Logging Unit Location	AUMB	LUN, LUL
Engineer's Name	Michael Morse / Ashraf Dandi			ENGI
Witness's Name	Doug Short			WITN

Absent Valued Parameters: CDF, CADT, CASG, BSDF, BSDT, SON

Mud Data

Drilling Fluid Type	KCL Polymer			DFT
Drilling Fluid Density	1.1 (gm/cc)	Drilling Fluid Viscosity	38.0 (s)	DFD, DFV
Drilling Fluid Loss	6.8 (cm3)	Drilling Fluid PH	10.0	DFL, DFPH
Borehole Salinity	28,000.0 (ppm)			BSAL
Mud Sample Source	Flowline			MSS
Resistivity of Mud Sample	0.225 (ohm.m)	Mud Sample Temperature	27.8 (degC)	RMS, MST
Resistivity of Mud Filtrate Sample	0.206 (ohm.m)	Mud Filtrate Sample Temperature	28.7 (degC)	RMFS, MFST
Resistivity of Mud Cake Sample	0.375 (ohm.m)	Mud Cake Sample Temperature	25.9 (degC)	RMCS, MCST
Resistivity of Mud - BHT	0.09477 (ohm.m)			RMB
Resistivity of Mud Filtrate - BHT	0.08835 (ohm.m)			RMFB
Maximum Recorded Temperature	95.6 (degC)			MRT
	95.6 (degC)			MRT1
	95.6 (degC)			MRT2
Date Circulation Stopped	09-Apr-2007	Time Circulation Stopped	16:15	DCS, TCS
Date Logger At Bottom	10-Apr-2007	Time Logger At Bottom	01:00	DLAB, TLAB

Absent Valued Parameters: MRT3

Log Quality

Logs over zones of interest are of good quality. HDRA is small; hole appears to be in good shape. All curves were recorded in the same run, and therefore no depth matching is expected to be required. There were no tension overpulls recorded in zones of interest, resulting in good quality logs and no depth mismatch.

Environmental Corrections

All corrections for neutron were done in the field, excluding formation salinity. This was computed inside the evaluation software (IP), as it is dependent on saturations.

Borehole corrections were done in the field for the resistivity. Shoulder bed corrections were not done. Rt (HART) was calculated in the field using tornado chart type corrections

Rxo data, RXOZ / RXO8 data is computed using a borehole model, and therefore is correct when recorded.



Density, RHOZ, RHO8 data is corrected using borehole shape (BS) and the PEF corrected for barite when recorded.

Gamma ray, ECGR data is corrected for hole size (from caliper) and mud weight in the field, thus no further correction was applied.

Rt Determination

HART was used as Rt.

Rw Determination

The Rw's were either interpreted from the logs or regional values were used for the saturation computations.

1. The Rw for the interval was taken as 3.2 ppk

Vclay Determination

Vclay was determined using:

Minimum of GR and Density-Neutron

CLAY VOLUME PARAMETERS

Well : Kewarra-01
Date : 19/10/2007 2:05:49 PM

Input Curves			
Gamma Ray	: EHGR	Neu/Den Density	: RHO8
Neu/Den Neutron	: HTNP		
Output Curves			
Vclay Gamma Ray	: VCLGR	Vclay Neu/Den	: VCLND
Vclay minimum	: VCL	Vclay average	: VCLAV

Zone number 1	Namur Top :	1438.00	Bottom :	1443.90		
Gr Use	: Yes	Gr Clean	: 25.	Gr Clay	: 325.	
Gr Method	: Linear	ND Use	: Yes	ND Neu Clay	: 0.4	
ND Den Clay	: 2.65	ND Den Clean1	: 2.65	ND Den Clean2	: 2.05	
ND Neu Clean1	: -0.04	ND Neu Clean2	: 0.3			

Zone number 2	Birkhead Top :	1443.90	Bottom :	1466.20		
Gr Use	: Yes	Gr Clean	: 25.	Gr Clay	: 325.	
Gr Method	: Linear	ND Use	: Yes	ND Neu Clay	: 0.4	
ND Den Clay	: 2.65	ND Den Clean1	: 2.65	ND Den Clean2	: 2.05	
ND Neu Clean1	: -0.04	ND Neu Clean2	: 0.3			

Zone number 3	Hutton Top :	1466.20	Bottom :	1493.02		
Gr Use	: Yes	Gr Clean	: 25.	Gr Clay	: 325.	
Gr Method	: Linear	ND Use	: Yes	ND Neu Clay	: 0.4	
ND Den Clay	: 2.65	ND Den Clean1	: 2.65	ND Den Clean2	: 2.05	
ND Neu Clean1	: -0.04	ND Neu Clean2	: 0.3			

Lithology Determination

Lithology was assumed to be sand and clay, using the parameters above.

Saturation

Saturation was calculated using the Dual Water equation:

$$1/R_t = \Phi_i T^{**m} \cdot S_{wT}^{**n} / a \cdot (1/R_w + S_{wb}/S_{wT}(1/R_{wb} - 1/R_w))$$

Cementation exponent “m” is the Shell equation in the IP software. “m” increases with decreasing PHIE. The saturation exponent “n” is 1.9.

Porosity

Porosity is calculated using the neutron-density in the IP software.

Cutoff

Cutoffs used were:

Vclay < 50%, Sw < 60% and PHIE < 10%.

Assumptions

1. Mineral model of sand, clay.
2. m is variable using the Shell equation and n assumed to be 1.9

Deliverables

Main Outputs

The following main outputs were delivered with the digital data:

#MNEM	UNIT	API CODE	Description
DEPTH	.M		
BVW	.Dec		: Bulk Volume water (Phie x SW)
BVWSXO	.Dec		: Bulk Volume water Invaded Zone (Phie x Sxo)
PayFlag	.		: Pay Flag
PayH	.		: Pay Height
PHIE	.Dec		: Effective Porosity
PHIT	.Dec		: Total Porosity
ResFlag	.		: Reservoir Flag
ResH	.		: Reservoir Height
SW	.Dec		: Water Saturation
SWT	.Dec		: Total Water Saturation
SXO	.Dec		: Saturation Invaded Zone
SXOT	.Dec		: Total Saturation Invaded Zone
VCL	.Dec		: Clay Volume

The following deliverables are produced from this processing:

1. Evaluation report (PDF)



- 2. Evaluation graphics, 1:500 (GIF),
- 3. LAS outputs of evaluation
- 4. Cutoffs and evaluation parameters (TXT)

Evaluation Parameters

The following parameters were used for the interpretation:

POROSITY WATER SATURATION PARAMETERS

Well : Kewarra-01
Date : 19/10/2007 2:05:52 PM

Input Curves			
Neutron	: TNPH	Density	: RH08
Sonic	: DT	PEF	: PEF8
Clay Volume	: VCL	Rt	: HART
Rxo	: RXO8	Temperature	: Temp
Non Calc. flag	: NoPay		
Output Curves			
Phi Total	: PHIT	Phi effective	: PHIE
Sw	: SW	Sw unlimited	: SWU
Sw total	: SWT	Sw total unlim	: SWTU
Sxo	: SXO	Sxo unlimited	: SXOU
Sxo total	: SXOT	Sxo total unlim	: SXOTU
Bulk vol water	: BVW	Bulk vol flushed	: BVWSXO
Wet clay volume	: VWCL	Dry Clay volume	: VDCL
Bound water sat	: SWB	Volume silt	: VSILT
Volume fines	: VFINES	Logic flag	: PHIFLAG
Matrix density	: RHOMA	Sonic matrix	: DTMA
Coal Volume	: VCOAL	Salt volume	: VSALT
m fom EPT/MSFL	: Mvar	Hydrocarbon den	: RHOHY
Mineral 1 Volume	: VSand	Mineral 2 Volume	: VLime
Mineral 3 Volume	: VDol	Rho Mat apparent	: RHOMAPP
DT Mat apparent	: DTMAPP	U Mat apparent	: UMAPP
Secondary Phi	: PHISEC	Sec Phi unlimited:	: RHOHY

Multi-mineral analysis

3 mineral used : Sand Lime Dol

Zone number 1 Namur Top : 1438.00 Bottom : 1443.90					
Rw	: 0.7	Rw Temp	: 80.	Rmf	: 0.206
Rmf Temp	: 28.7	Rw bound	: 0.1	Rwb Temp	: 80.
Rmf bound	: 0.1	Rmfb Temp	: 80.	Rho Sxo zone	:
Rho Wet Clay	: 2.65	Rho Dry Clay	: 2.78	Neu Wet Clay	: 0.4
Sonic Wet Clay	: 95.	Hc Den	: 0.8	Hc Den Min	: 0.1
Den Hc app	:	GD source	: Mlt-Mins	Rho GD	: 2.65
Sonic Equ	: Wyllie	Sonic water	: 189.	Sonic Cp	: 1.
Neu Form Sal	: Yes	Neu Log Cont	: Schlumb	Neu Tool Type	: CNL
Porosity Method	: Density	OBM ?	: No	Phi max	: 0.3
Delta Phi max	: 0.15	m vari wth Vcl	: No	Vcl cutoff	: 0.6
Sxo Limit ?	: Yes	Sxo Limit	: 0.2	Sat Equation	: Dual water
a factor	: 1.	m exponent	: 1.8	n exponent	: 1.9
Sxo Method	: Rxo	m source	: Shell	n source	: Param
Coal Logic	: No	Salt Logic	: No	PhiT Clay	:
Model Type	: U/Rho	Sand Umat	: 5.2	Lime Umat	: 13.8
Dol Umat	: 9.	Sand RhoMat	: 2.65	Lime RhoMat	: 2.71
Dol RhoMat	: 2.85	Sand Rho True	: 2.65	Lime Rho True	: 2.71
Dol Rho True	: 2.85	Sand DT True	: 55.5	Lime DT True	: 49.
Dol DT True	: 44.	Clay Corr Input	: Yes	Sand Clay ?	: No
Lime Clay ?	: No	Dol Clay ?	: No	Pef Clay	: 3.
Phie Sw Limit	: 0.	Phie Limit	: 0.	Vcl Limit	: 1.

Zone number 2 Birkhead Top : 1443.90 Bottom : 1466.20



Rw	: 0.7	Rw Temp	: 80.	Rmf	: 0.206
Rmf Temp	: 28.7	Rw bound	: 0.1	Rwb Temp	: 80.
Rmf bound	: 0.1	Rmfb Temp	: 80.	Rho Sxo zone	:
Rho Wet Clay	: 2.65	Rho Dry Clay	: 2.78	Neu Wet Clay	: 0.4
Sonic Wet Clay	: 95.	Hc Den	: 0.8	Hc Den Min	: 0.1
Den Hc app	:	GD source	: Mlt-Mins	Rho GD	: 2.65
Sonic Equ	: Wyllie	Sonic water	: 189.	Sonic Cp	: 1.
Neu Form Sal	: Yes	Neu Log Cont	: Schlumb	Neu Tool Type	: CNL
Porosity Method	: Density	OBM ?	: No	Phi max	: 0.3
Delta Phi max	: 0.15	m vari wth Vcl	: No	Vcl cutoff	: 0.6
Sxo Limit ?	: Yes	Sxo Limit	: 0.2	Sat Equation	: Dual water
a factor	: 1.	m exponent	: 1.8	n exponent	: 1.9
Sxo Method	: Rxo	m source	: Shell	n source	: Param
Coal Logic	: No	Salt Logic	: No	PhiT Clay	:
Model Type	: U/Rho	Sand Umat	: 4.8	Lime Umat	: 13.8
Dol Umat	: 9.	Sand RhoMat	: 2.65	Lime RhoMat	: 2.71
Dol RhoMat	: 2.85	Sand Rho True	: 2.65	Lime Rho True	: 2.71
Dol Rho True	: 2.85	Sand DT True	: 55.5	Lime DT True	: 49.
Dol DT True	: 44.	Clay Corr Input	: Yes	Sand Clay ?	: No
Lime Clay ?	: No	Dol Clay ?	: No	Pef Clay	: 3.
Phie Sw Limit	: 0.	Phie Limit	: 0.	Vcl Limit	: 1.

Zone number 3 Hutton Top : 1466.20 Bottom : 1493.02

Rw	: 0.7	Rw Temp	: 80.	Rmf	: 0.206
Rmf Temp	: 28.7	Rw bound	: 0.1	Rwb Temp	: 80.
Rmf bound	: 0.1	Rmfb Temp	: 80.	Rho Sxo zone	:
Rho Wet Clay	: 2.65	Rho Dry Clay	: 2.78	Neu Wet Clay	: 0.4
Sonic Wet Clay	: 95.	Hc Den	: 0.8	Hc Den Min	: 0.1
Den Hc app	:	GD source	: Mlt-Mins	Rho GD	: 2.65
Sonic Equ	: Wyllie	Sonic water	: 189.	Sonic Cp	: 1.
Neu Form Sal	: Yes	Neu Log Cont	: Schlumb	Neu Tool Type	: CNL
Porosity Method	: Density	OBM ?	: No	Phi max	: 0.3
Delta Phi max	: 0.15	m vari wth Vcl	: No	Vcl cutoff	: 0.6
Sxo Limit ?	: Yes	Sxo Limit	: 0.2	Sat Equation	: Dual water
a factor	: 1.	m exponent	: 1.8	n exponent	: 1.9
Sxo Method	: Rxo	m source	: Shell	n source	: Param
Coal Logic	: No	Salt Logic	: No	PhiT Clay	:
Model Type	: U/Rho	Sand Umat	: 5.2	Lime Umat	: 13.8
Dol Umat	: 9.	Sand RhoMat	: 2.65	Lime RhoMat	: 2.71
Dol RhoMat	: 2.85	Sand Rho True	: 2.65	Lime Rho True	: 2.71
Dol Rho True	: 2.85	Sand DT True	: 55.5	Lime DT True	: 49.
Dol DT True	: 44.	Clay Corr Input	: Yes	Sand Clay ?	: No
Lime Clay ?	: No	Dol Clay ?	: No	Pef Clay	: 3.
Phie Sw Limit	: 0.	Phie Limit	: 0.	Vcl Limit	: 1.

WELL LOCATION REFERENCE MARKS SKETCH PLAN

The Petroleum Regulations (Land) 1966

Cat. No

Well name **KEWARRA #1**

File No /

Authority to Prospect (or other title) ATP 259P

Parish of TIGRIS

County of CARRUTHERS

Map TICKALARA SG54-3

MGA 94 Co ords, Zone54

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown eg. Iron Pin in concrete; B.M. on blazed Ironbark.

Lat S 28°30'40".8321

514 376.959

E

Long E 141°08'48".9182

6 846 142.714

N

Grid Convergence +00°04'12".47

Co ords obtained by GPS survey

Measurements are in metres

GPS

BM's are deep driven star droppers with witness post

Datum - TEEGAL CONT

Levelled by GPS

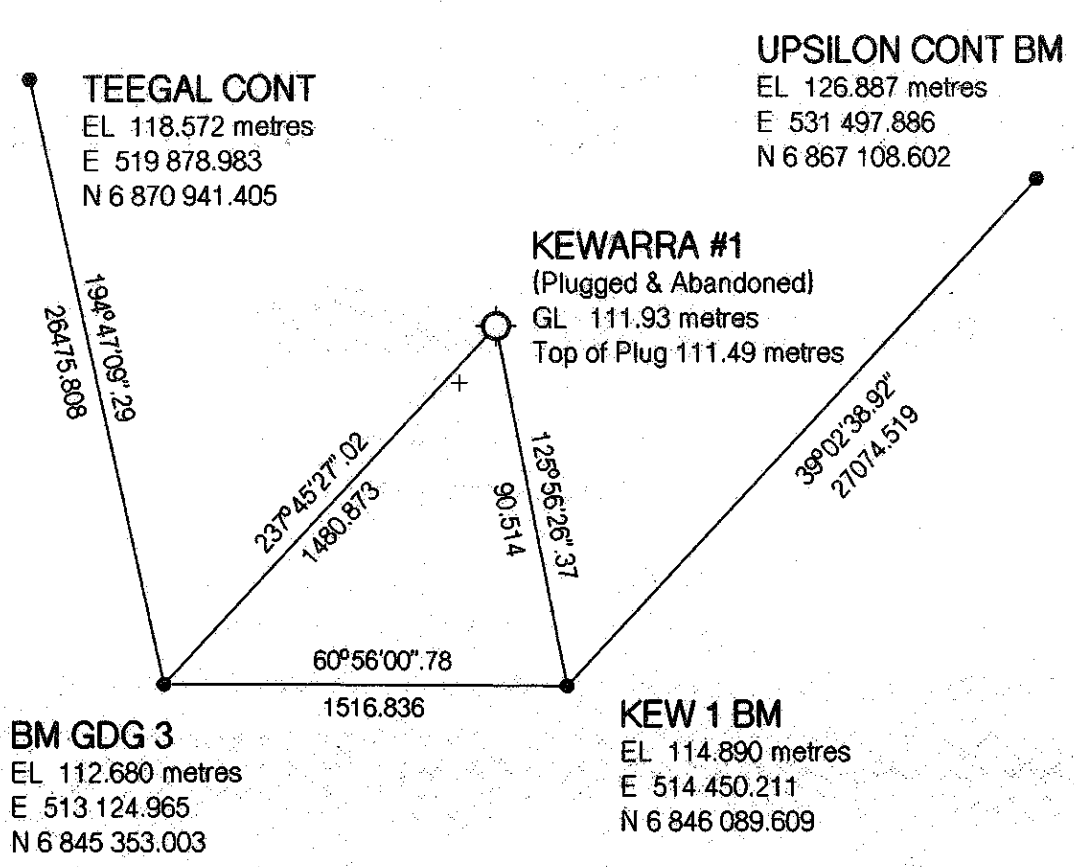
VACANT

MARGIN

THIS

LEAVE

PLEASE



Installed by FYFE PTY LTD

ACN 062 592 465

Date 12th May 2007

Levelled by FYFE PTY LTD

ACN 062 592 465

Date 12th May 2007

Levelled from

TEEGAL CONT, EL 118.572 metres

Adopted R.L. of Datum

AHD metres

NIL

Datum for bearings

PLANE

Correction for AHD Datum

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under "Petroleum and Gas (Production and Safety) Act 2004 and associated Regulations and that the information shown hereon is correct

Date 15th May 2007

File Ref 07071W01

Approved Surveyor

CASING AND CEMENTING REPORT

WELL: **Kewarra- 1**

SUPERVISOR: **#N/A**

DATE: _____

CASING DETAILS

Size (")	9 5/8	Weight (ppf)	36	Grade	K-55	Landed depth (mRT)	578.3	Av. Length	12.19	Collapse (psi)	2020	Burst (psi)	3520
Joints on location	47	No. of joints run	47	Joints in shoe track	1	Float shoe (Y/N)	Y	Float collar (Y/N)	Y				
Final displ. (psi)	#N/A	Buoyed wt. (kLb)	#N/A	Set weight (kLb)	#N/A	Displ. (Bbls)	25	Coupling		BT&C			

PRE JOB CIRCULATION

Pump 1 (spm)	43	Pump 2 (spm)		Pressure	156	Time (mins)	570	Vol. Pumped (Bbls)	4049	Mud wt (ppg)	#N/A
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PRE-FLUSH

Volume (Bbls)	5	Wt(ppg)	8.40	Hyd. Loss (psi)	#N/A	Additives:		Kg		Kg	
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TAIL SLURRY

Wt(ppg)	15.8	Class	G	Volume (Bbls)	28	Yield	1.15	Sacks	135	Water (g/sx)	5.00	Water (Bbls)	16	Design top	475
OH/Cal	OH	Excess (%)	30	Hole size (")	12 1/4	Mix (bpm)	6	Mix (psi)	257	Start	20:45	Finish	20:50		
Additives:		%													
		%			3.0										

LEAD SLURRY

Wt(ppg)	11.8	Class	G	Volume (Bbls)	158	Yield	2.75	Sacks	320	Water (g/sx)	16.55	Water (Bbls)	126	Design top	0
OH/Cal	OH	Excess (%)	80	Hole size (")	12.25	Mix (bpm)	7	Mix (psi)	290	Start	20:15	Finish	20:40		
Additives:		%	Bentonite												
		%		3.0					55.0					lb	CacL2

DISPLACEMENT

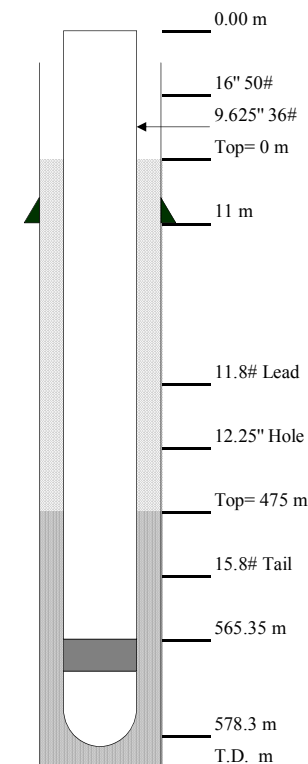
Fluid type	Mud	Wt	9.10	Calculated (Bbls)	143	Pumped (Bbls)		Bump pressure (psi)	800	Used (Rig/Unit)	Rig
Time: Start	20:50	Finish	21:10	Returns (%)	100	Top plug (Y/N)	Y	Bottom plug (Y/N)	Y	Floats held (Y/N)	Y
Pressure (psi)	Initial 300	final 800	max 900	min		Rate (bpm)	Initial 8.4	final 6.7	max 8.4	min 6.7	

LOT / FIT

OMW (ppg)	8.70	FIT (ppg)	8.60	FIT Pressure (psi)	-10	Test pressure (psi)	500	EMW (ppg)	13.77
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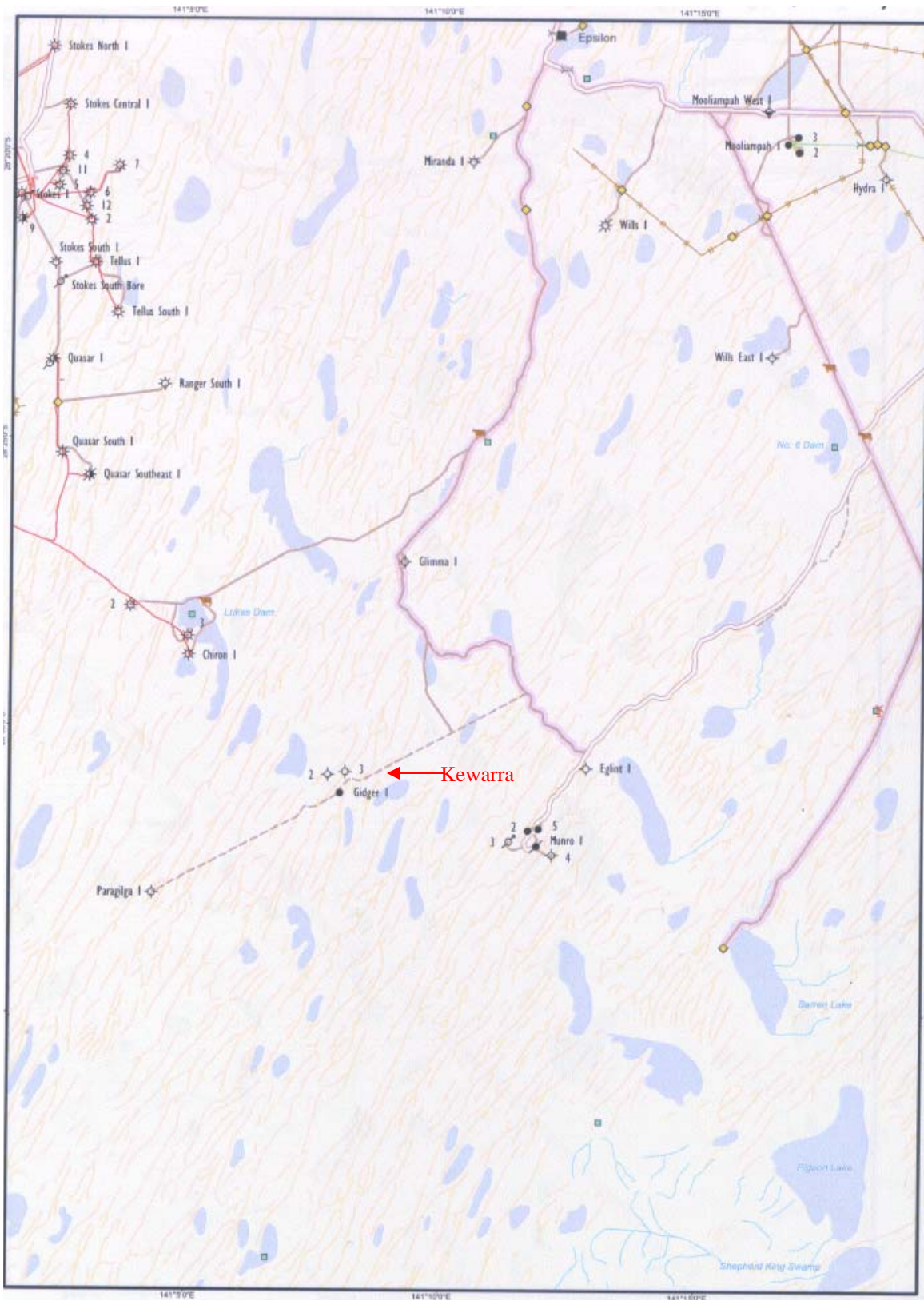
CASING RUN LIST

QTY	DESCRIPTION	LENGTH	FROM	TO
1	9-5/8" casing shoe	0.43	577.87	578.30
2	1 jt of 9-5/8" 36#/ft K55 casing	12.20	565.67	577.87
3	9-5/8" float collar	0.32	565.35	565.67
4	46 jts of 9-5/8" 36#/ft K55 casing	560.85	4.50	565.35
5	9-5/8" landing jt	4.50	0.00	4.50



COMMENTS

Waited on Howco due to roads been wet, Rigged in Howco, Held pre-job safety meeting, preform surface csg cement job, Job went well no problems 100% recovery, displaced plug with rig pumps, bumped plug and pressure tested plug and csg to 3,000 psi held good, bled back 1.5 bbls plug holding. Wait on cement for 6 hours.





**BEACH PETROLEUM
KEWARRA 1
ATP 633P
DST REPORT**



KEWARRA 1
DST 1
REPORT, PLOTS & DATA

Company: Beach Petroleum
Well Name: Kewarra 1
Well Location: ATP 633P
State: Qld
Date: 8/04/2007
Test Type: Conventional - Straddle (Blank Off)
Formation: Patchawarra
Interval: 1519.53 - 1536.09m
DST #: 1



Ticket #: 1215
TD: 1586.00m
RT Elev: 116.80m
GL Elev: 113.00m
Tester: W. Murphy / L. Barrett

RECORDER DATA:

Rec #:	6891	6938	8327	6723	
Range (psi):	10k	15k	10k	5k	
Battery S/N:	M15693	B17265	M17006	T15233	
Depth (m):	1506.75	1514.34	1524.45	1540.50	
	PSIG	PSIG	PSIG	PSIG	
Initial Hydrostatic:		2403.24	2422.15	2447.32	
Initial Prewell:		1694.57	1788.51	2465.89	
Final Prewell:	Gauge	1698.23	1783.90	-	
Initial Shutin:	Failure	2069.99	2086.17	-	
Initial Flow:		1741.30	1817.28	-	
Final Flow:		2067.47	2083.18	-	
Final Shutin:		2070.20	2086.54	2112.15	
Final Hydrostatic:		2405.66	2432.00	2453.16	
Inside / Outside:	Fluid	Inside	Outside	Below	

TIME DATA:

	<u>Time Start</u>	<u>Time End</u>	<u>Pick Up Tools:</u>	
Prewell: 2 mins	8:14	8:16	23:11	7-Apr
Initial Shutin: 19 mins	8:16	8:35	RIH Pipe: 2:00	
Initial Flow: 120 mins	8:35	10:35	On Depth: 6:30	
Final Shutin: 240 mins	10:35	14:35	Open Tools: 8:14	8-Apr
			Time Pulled: 14:35	
			Drop Bar: 14:45	
			POOH Pipe: 16:00	
			L/O Tools: 21:15	
			Finish L/O Tools: 23:59	

(24 hour time)

TOOL DATA:

	<u>OD (in)</u>	<u>ID (in)</u>	<u>Length (m)</u>	<u>Cap. (bbls/ft)</u>
Tool Weight: 9 000 lb	Drill Pipe 1: 4.5	3.82	1362.82	0.0142
Weight Set on Packers: 35 000 lb	Drill Pipe 2: -	-	-	-
Weight Pulled Free: 97 000 lb	HW Drill Pipe 1: 4.5	2.89	36.60	0.0081
Initial String Weight: 82 000 lb	HW Drill Pipe 2: -	-	-	-
Hole Size: 8-1/2 in	Drill Collars 1: 6.5	2.79	111.52	0.0076
Bottom Hole Choke: 1/2 in	Drill Collars 2: -	-	-	-

FLUID RECOVERY:

<u>60</u>	bbls of	<u>formation water</u>
<u> </u>	m of	<u> </u>
<u> </u>	m of	<u> </u>
<u> </u>	m of	<u> </u>

MUD DATA:

Mud Type:	<u>KCl/Polymer</u>
Weight:	<u>9.2</u> ppg
Viscosity:	<u>40</u> sec
W.L.:	<u>-</u> cc/30min
F.C.:	<u>-</u> /32"
Mud Drop:	<u>Slow Dropping Annulus</u>

BLOW DESCRIPTION AND REMARKS:

Preflow: 08:14 - Open tool. Moderate bubbles at bottom of bucket.
 08:16 - Shut tool.

Second Flow: 08:36 - Open tool. Moderate bubbles at bottom of bucket.
 08:45 - 7psi. Open to 1/2" choke.
 08:50 - Blow decreasing to moderate at 8" in bucket.
 08:58 - Weak blow at surface of bucket.
 09:15 - Close 1/2" choke. Open to bubble hose. Flow increased to strong on bottom.
 10:20 - Blow decreasing to moderate at 8" in bucket.
 10:36 - Shut tool.

SAMPLE CHAMBER RECOVERY: Formation water **SURFACE CHOKE SIZE:** 1/2 in

Comments:**GENERAL DATA:**

Number of Packers: 4
Packer Size: 7-1/2" x 36"

Packer S/N:	<u>NA</u>
Location:	<u>Top</u>
Condition OOH:	<u>Good</u>
Packer S/N:	<u>NA</u>
Location:	<u>Top</u>
Condition OOH:	<u>Good</u>

Packer S/N:	<u>NA</u>
Location:	<u>Bottom</u>
Condition OOH:	<u>Good</u>
Packer S/N:	<u>NA</u>
Location:	<u>Bottom</u>
Condition OOH:	<u>Good</u>

Prior operations:	<u>Drilling</u>
Wiper Trip Performed:	<u>Yes</u>
Amount of Fill (m):	<u>Nil</u>
Hole Condition:	<u>Good</u>

Cushion Amount (m):	<u>Nil</u>
Cushion Type:	<u>N/A</u>
Reversed Out:	<u>Yes</u>
Tool Chased:	<u>No</u>

BHT (°F):	<u>220.02</u>
Company Rep:	<u>G. Mogg</u>
Contractor:	<u>Hunt Energy</u>
Rig Number:	<u>2</u>

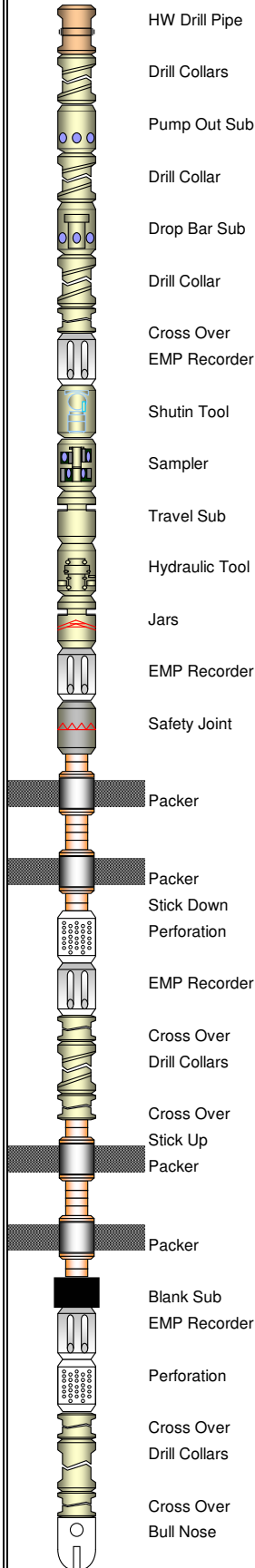
GENERAL TEST COMMENTS:

Nil.

Company: Beach Petroleum
Well Name: Kewarra 1
Well Location: ATP 633P
State: Qld
Date: 8/04/2007
Test Type: Conventional - Straddle (Blank Off)
Formation: Patchawarra
Interval: 1519.53 - 1536.09m
DST #: 1



Ticket #: 1215
TD: 1586.00m
RT Elev: 116.80m
GL Elev: 113.00m
Tester: W. Murphy / L. Barrett



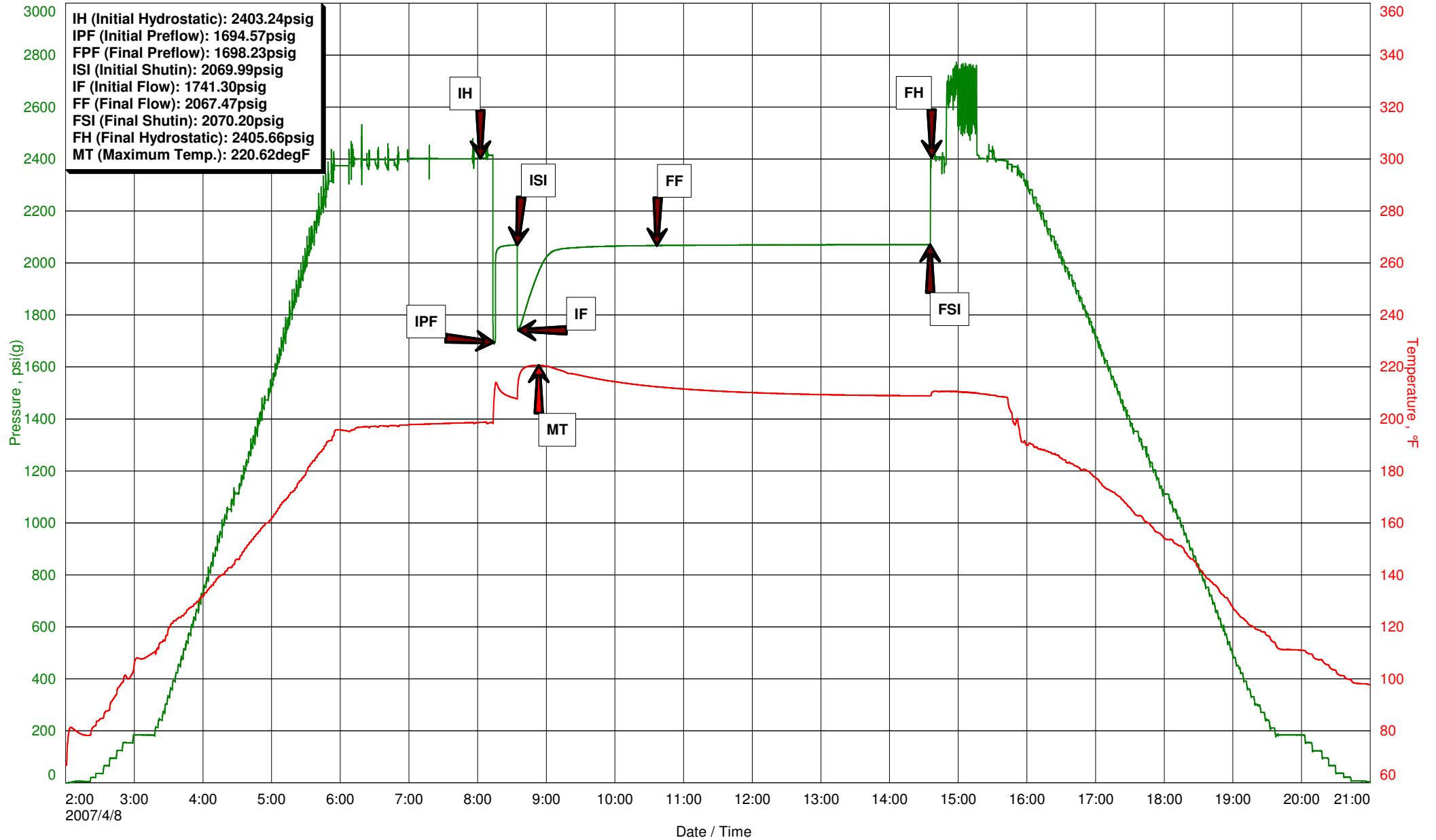
Total Tool To Bottom of Top Packers	14.23 m
Tool Interval	7.15 m
Bottom Packers and Anchor	12.58 m
Total Tool:	33.96 m
Drill Collars in Anchor	37.33 m
Drill Collars in Interval	9.41 m
Drill Collars above Tool	111.52 m
HW Drill Pipe above Tool	36.60 m
Drill Pipe above Tool	1356.72 m
Pup Joints above Tool	6.10 m
TOTAL ASSEMBLY:	1591.64 m

STICK UP:	-5.64	
Pup Joint	6.10	-5.64 1 x Pup Joint
Drill Pipe	1356.72	0.46 72 x Stands Drill Pipe
HW Drill Pipe	36.60	1357.18 4 x HW Drill Pipe
Drill Collars	93.03	1393.78 10 x Drill Collars
Pump Out Sub	0.36	1486.81
Drill Collar	9.16	1487.17 1 x Drill Collar
Drop Bar Sub	0.39	1496.33
Drill Collar	9.33	1496.72 1 x Drill Collar
Cross Over	0.40	1506.05
Drop Bar Catcher	0.30	1506.45
EMP Recorder WMG 6891	0.91	1506.75
Shut In Tool	1.64	1507.66
Sampler	1.01	1509.30
Travel Sub	0.60	1510.31
Hydraulic Tool	1.75	1510.91
Jars	1.68	1512.66
EMP Recorder WMG 6938	0.80	1514.34
Safety Joint	0.79	1515.14
Packer	2.32	1515.93
Packer	1.28	1518.25
DEPTH:	1519.53	
Stick Down	1.02	1519.53
Perforations	3.90	1520.55
EMP Recorder WMG 8327	0.99	1524.45
Cross Over	0.40	1525.44
Drill Collars	9.41	1525.84 1 x Drill Collar
Cross Over	0.40	1535.25
Stick Up	0.44	1535.65
DEPTH:	1536.09	
Packer	1.85	1536.09
Packer	2.56	1537.94 Including Blank Sub
EMP Recorder WMG 6723	0.92	1540.50
Perforations	5.13	1541.42
Cross Over	0.40	1546.55
Drill Collars	37.33	1546.95 4 x Drill Collars
Cross Over	0.40	1584.28
Bullnose	1.32	1584.68
TOTAL DEPTH:	1586.00	

Beach Petroleum
Inside EMP Rec WMG 6938 Depth 1514.34m
Start Test Date: 2007/04/07

INSIDE REC DST 1
Formation: Patchawarra
Job Number: DST 1

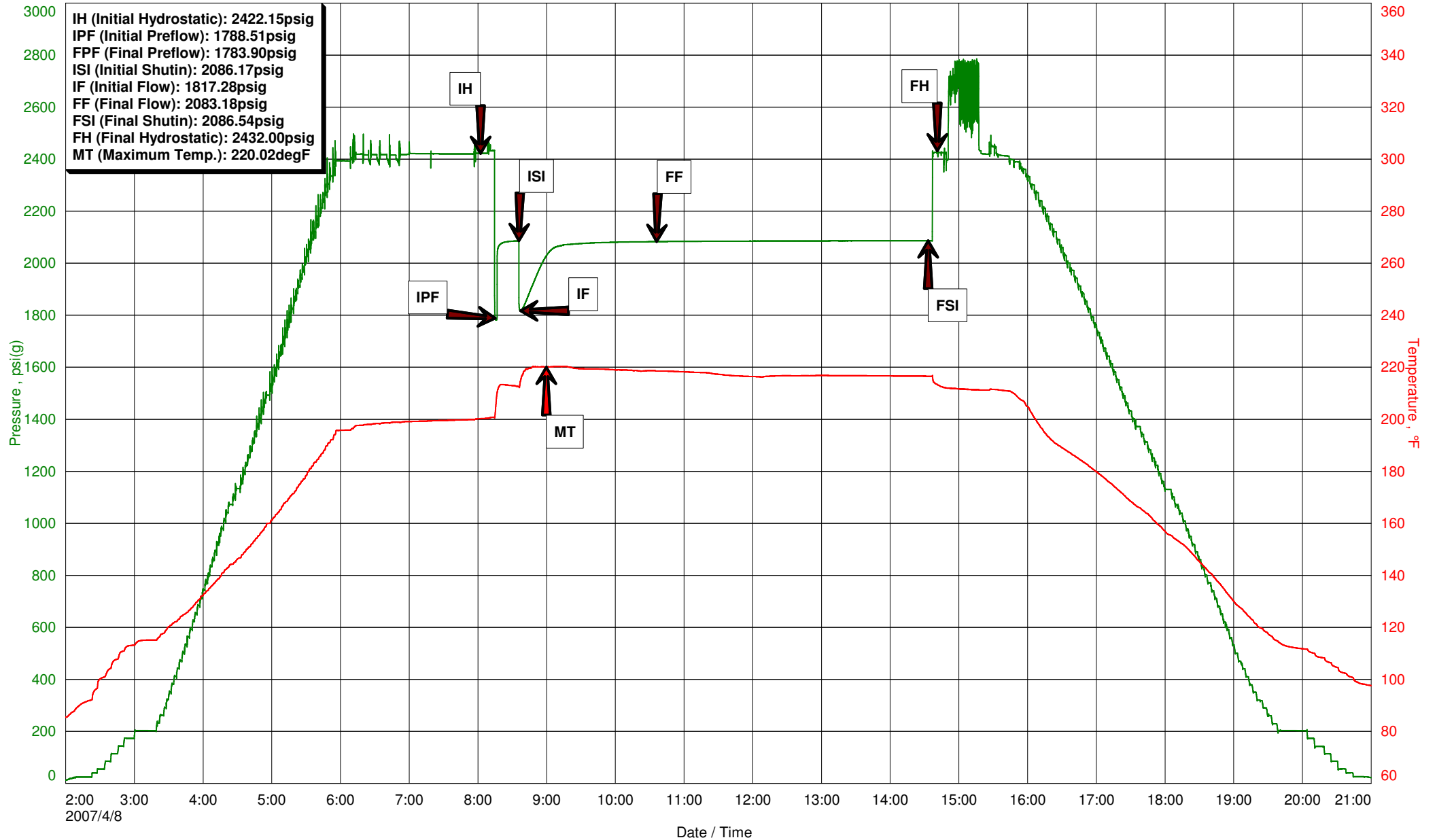
Kewarra 1



Beach Petroleum
Outside EMP Rec WMG 8327 Depth 1524.45m
Start Test Date: 2007/04/07

OUTSIDE REC DST 1
Formation: Patchawarra
Job Number: DST 1

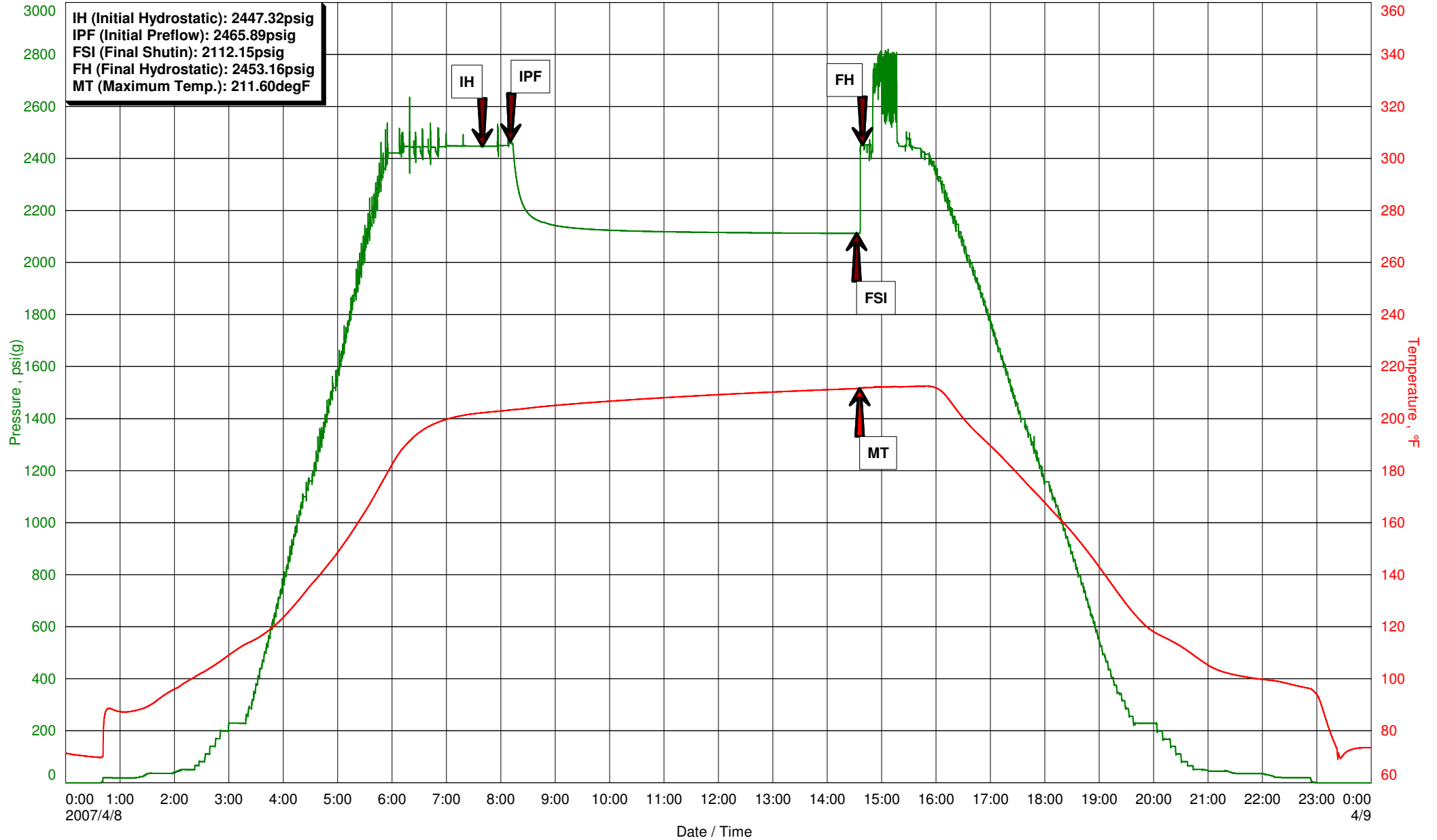
Kewarra 1



Beach Petroleum
Below Straddle EMP Rec WMG 6723 Depth 1540.50m
Start Test Date: 2007/04/07

BELOW STRADDLE REC DST 1
Formation: Patchawarra
Job Number: DST 1

Kewarra 1





This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17205

Accreditation No 2013



Certificate of Analysis

Beach Petroleum
GPO Box 175
Adelaide SA 5001
Australia

Attention: Bronwyn Camac

Project 07PEAD0006141
Collected by D A Short

Customer Sample ID	Kewarra-1 DST-1
Sample Type	Water- muddy & top
Date Sampled	08/04/2007
Description	1520-1536m

WATER ANALYSIS

Test/Reference	Unit	
PROPERTIES: APHA 20th Ed		
pH at Measured Temp.		6.7
Measured Temp.	°C	20.4
Electrical Conductivity @ 25°C	µS/cm	5900
Resistivity @ 25°C	M.Ohm	2
ANIONS mg/L APHA 20th ed		
Hydroxide as OH	mg/L	<1
Carbonate as CO3	mg/L	<1
Bicarbonate as HCO3	mg/L	1500
Chloride as Cl	mg/L	1700
Nitrate as NO3	mg/L	<0.1
Sulphate as SO4	mg/L	17
Total Anions	mg/L	3200
ANIONS meq/L APHA 20th ed		
Hydroxide as OH	meq/L	<0.01
Carbonate as CO3	meq/L	<0.01
Bicarbonate as HCO3	meq/L	25
Chloride as Cl	meq/L	48
Nitrate as NO3	meq/L	<0.01
Sulphate as SO4	meq/L	0.35
Total Anions	meq/L	73
CATIONS mg/L APHA 20th ed		
Potassium as K	mg/L	100
Sodium as Na	mg/L	1500
Calcium as Ca	mg/L	33
Magnesium as Mg	mg/L	5
Total Cations	mg/L	1700
CATIONS meq/L APHA 20th ed		
Potassium as K	meq/L	3
Sodium as Na	meq/L	67
Calcium as Ca	meq/L	2
Magnesium as Mg	meq/L	0.39
Total Cations	meq/L	72
DERIVED PARAMETERS APHA 20th ed		
Ion balance (Diff * 100/Sum)	%	1
Acceptance Criteria	%	5
Satisfactory		Yes
Total Alkalinity (calc as CaCO3)	mg/L	1200

Customer Sample ID Kewarra-1 DST-1
Sample Type Water- muddy &
top
Date Sampled 08/04/2007
Description 1520-1536m

WATER ANALYSIS

Test/Reference	Unit	
Total Cations + Anions	mg/L	4900
Hardness (calc as CaCO3)	mg/L	100
Calculated Total Dissolved Solids	mg/L	3800

Test Description

DERIVED PARAMETERS

If the ion balance in this sample is unsatisfactory it is most likely due to a component or components of the sample that is not within the scope of this analysis.

Authorised By

Valentina Pavlovic Chemist Accreditation No 2013

Laboratory Manager

Diane Cass Operations Manager



Final Report

- Indicates Not Requested * Indicates NATA accreditation does not cover the performance of this service

Samples will be discarded after 30 days unless otherwise notified.

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PALYNOLOGY REPORT

KEWARRA-1,

ATP 633P, COOPER/EROMANAGA BASIN,

Queensland

BY

ROBYN PURCELL

For BEACH PETROLEUM LIMITED

JULY 2007

PALYNOLOGY REPORT

KEWARRA-1,

**ATP 633P, COOPER BASIN,
QUEENSLAND**

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1 SUMMARY

The results of the palynological study of 18 sidewall samples from Kewarra-1, ATP 633P, Cooper Basin, can be summarised as follows:

1183.5 m – 1198.5 m: APK 1; Early Cretaceous; non-marine; immature

1454.5 m – 1456.0 m: APJ 42/43; Middle Jurassic; non-marine; immature

1467.0 m: Indeterminate

1499.5 m: APJ 33; Middle Jurassic; non-marine; immature

1500.5 m - ?1502.0 m; APJ 32; Early Jurassic; non-marine; immature

1504.0 m – 1507.0 m: APP 321 (lower); Early Permian; non-marine; immature

1568.8 m – 1580.0 m: APP 221; Early Permian; non-marine - ?marginal marine;
immature

1589.0 m – 1611.0 m: Indeterminate

2 INTRODUCTION

The palynological results for Kewarra-1 contained in this report are based on 18 sidewall core samples, as summarised on Table 1.

The study was conducted to determine the palynological zone and age of the samples, and interpret the environment of deposition and thermal maturity.

3 PROCESSING

Processing was done by Core Laboratories Australia Pty Ltd, 447 – 449 Belmont Avenue, Kewdale, WA. All samples were processed in a standard manner.

The sample weight and organic yield were recorded in the laboratory and are included in Table 1.

4 PALYNOSTRATIGRAPHY

The interpreted palynostratigraphy is based on the zonation scheme of Price (1997). Figure 1 shows the Jurassic - Cretaceous palynostratigraphic units, and Figure 2 shows the Eromanga and upper Cooper Basin lithostratigraphy. The relationship of the Bowen Basin and Cooper Basin Permian zonation is shown on Figure 3 (Price, 1997b). The relationship of the Bowen Basin zonation to the lithostratigraphy of the Cooper Basin is shown on Figure 4.

The thermal maturity of the sediments is interpreted from spore coloration and is expressed as the Staplin thermal alteration index (TAI). The corresponding maturity for generation of liquid hydrocarbons is as follows:

TAI 1 – 1+	Translucent – yellow	immature
TAI 2	yellow-brown	marginally mature
TAI 2+ - 3	light – dark brown	mature
TAI 3+- 5	dark brown – black	over mature

Palynological data are included in Table 1. The data are based on a specimen count of 100. The environmental interpretations are derived from the palynomorph content and diversity of saline taxa (spiny acritarchs), other microplankton (mostly freshwater algae), and terrestrial spore-pollen. The criteria for these assessments are defined on Table 1.

The distribution of species identified in the samples is shown on Enclosure 1 - 3. Fossil names are given in full when first mentioned in the text, but only the genus initial and full species name are given when subsequently mentioned. Frequency of taxa is discussed in the following intervals: Very rare = <1%, Rare = 1-3%, Frequent = 4-10%, Common = 11-29%, Abundant = 30-49%, Super-abundant = 50-100%.

	PRE '65	AAR PRE '85	BURGER 1995	McKELLAR 1994	CURRENT NOMENCLATURE			INDEX FORMS	
EARLY CRETACEOUS					APK 2			← <i>Foraminisporites wonthaggiensis</i>	
		<i>C. australiensis</i>			APK 1	APK 12	APK 122	← <i>Dictyosporites speciosus</i>	
						APK 121		← <i>Cyclosporites hughesii</i>	
						APK 11			← <i>Cicatricosisporites</i> spp.
LATE JURASSIC	Zone 4	UJ5-6c		<i>R. watherooensis</i>	APJ 6	APJ 62	APJ 622	← <i>Foraminisporites dailyi</i>	
							APJ 621		← <i>Ceratosporites equalis</i>
		UJ5-6 a-b	J5-6	<i>M. florida</i>	APJ 5			← <i>Retitriletes watherooensis</i>	
MIDDLE JURASSIC	Zone 3			<i>C. glebulentus</i>	APJ 4	APJ 43		← <i>Murospora florida</i>	
									← <i>Contignisporites glebulentus</i>
		LJ5-6		<i>A. norrisii</i>		APJ 42			← <i>Contignisporites norrisii</i>
				<i>R. circolumenus</i>			APJ 41		← <i>Perotrilites whitfordensis</i>
		J4b	J4						← <i>Contignisporites burgeri</i>
		J4a	?						← <i>Retitriletes circolumenus</i>
						<i>R. major</i>	APJ 3	APJ 33	APJ 332
						APJ 331			
EARLY JURASSIC	Zone 2	J2-3	?	<i>A. fissus</i>		APJ 32		← <i>Kitukisporites lacunus</i>	
						APJ 31		← <i>Staplinisporites manifestus</i>	
									← <i>Rubinella major</i>
									← <i>Callialasporites dampieri</i>
		J1b	Assemblage D	<i>C. torosa</i>	APJ 2	APJ 22	APJ 222		← <i>Antulisporites saevus</i>
							APJ 221		← <i>Foraminisporites caelatus</i>
J1a	C			APJ 1	APJ 12	1202	← <i>Nevesisporites vallatus</i> var. 1106		
					APJ 11	1201		← <i>Podosporites tripakshii</i>	
								← <i>Ceratosporites helidonensis</i>	
TRIASSIC	Zone 1	Basal Bund. Ass.	B	<i>Polycingulatisporites</i>	APT 5			← <i>Ischyosporites crateris - punctatus</i>	
			A						← <i>Corollina torosa</i>
								← <i>Craterisporites rotundus</i>	
								← <i>Polycingulatisporites</i>	



August 1995

Figure 1: Jurassic - Cretaceous palynostratigraphic units. (Price, 1997).

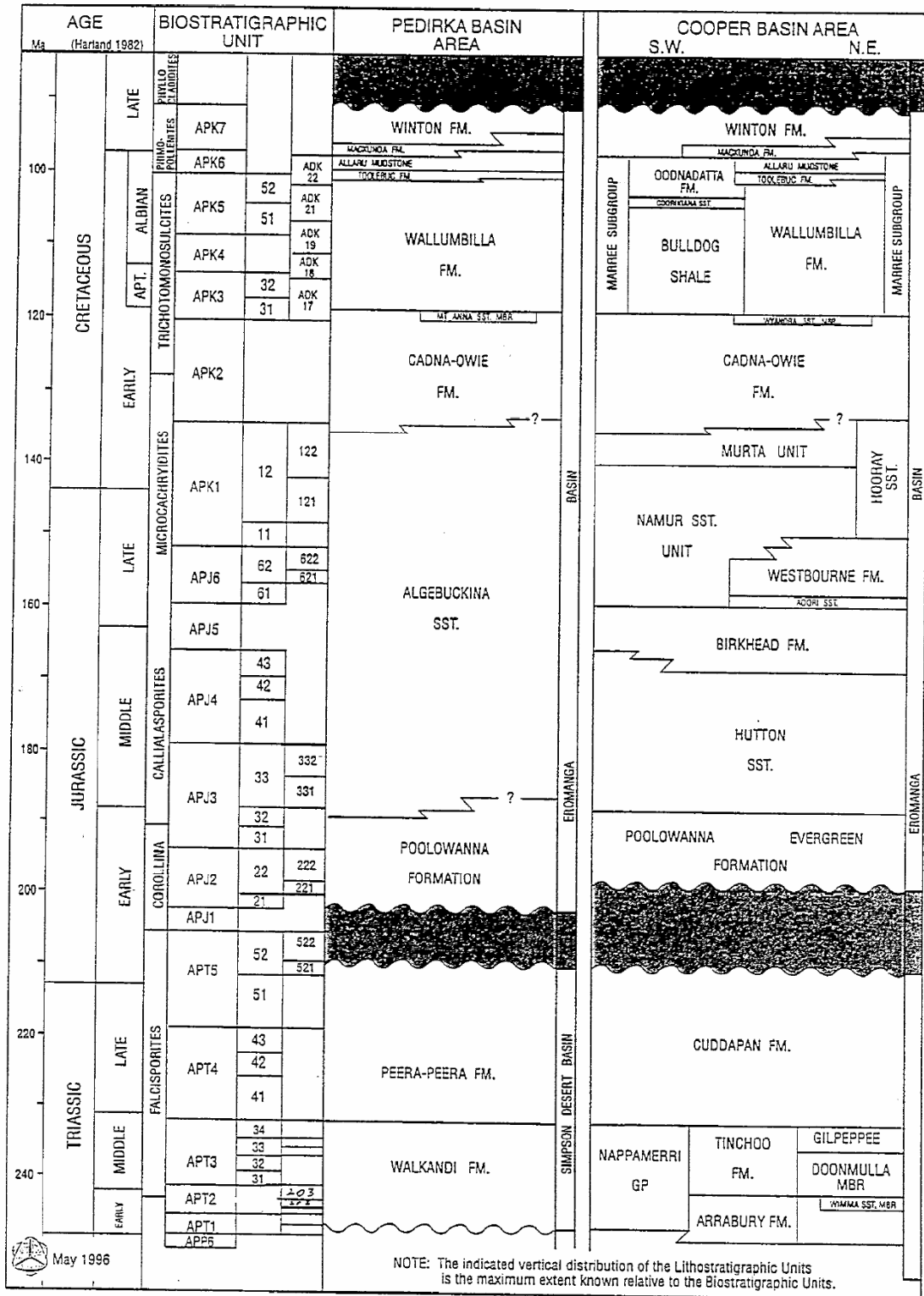


Figure 2: Eromanga Basin and upper Cooper Basin lithostratigraphy (Price, 1997).

APG Consultants Bowen Basin Units				Santos Cooper Basin Units				Index Taxa	Prominent taxa (Cooper Basin)		
APP3	33	332	3322	PP3	33	upper	← <i>Dulhuntyispora granulata</i> (sp. 296)				
			3321			lower	← <i>Lopadlospora vermithola</i> (sp. 2050)				
		331					← <i>Lopadlospora pannosus</i> (sp. 1379)				
	32	322			32	322			← <i>Acanthotriletes villosus</i> (sp. 5)		
			3214			upper	← <i>Acanthotriletes "bacculatus"</i> (sp. 251)				
			3213				← <i>Granulatisporites "gramonus"</i> (sp. 4)				
			3212			321			← <i>Propinquispora praetholus</i> (sp. 206)		
			3211				lower		← <i>Granulatisporites trisinus "subtilis"</i> (sp. 3781)		
	31		3102		31				← <i>Præcolpates sinuosus "corona"</i> (sp. 21)		
			3101				← <i>Granulatisporites trisinus "microsubtilis"</i> (sp. 4549)				
	APP2	22			2222	PP2	22		upper	← <i>Phaselisporites cicatricosus</i> (sp. 63) (& <i>P. sinuosus "obtusus"</i>)	← <i>G. micronodosus</i> , <i>M. "perfecta"</i> 362, <i>M. "micronodosus"</i> 330 ← non striate bisaccates, <i>A. tereteangulatus</i> , <i>I. robusta</i> ← <i>G. ewingtonensis</i> , <i>M. striatus</i> ← non striate bisaccates, <i>A. tereteangulatus</i> , <i>A. cornutus</i> ← striate and non striate bisaccates, <i>M. striatus</i> , <i>M. triradiatus</i> , <i>A. tereteangulatus</i> , <i>Horriditriletes</i> spp. ← non striate bisaccates, <i>A. tereteangulatus</i> , <i>Horriditriletes</i> ← non striate bisaccates, <i>L. directus</i> , <i>M. tentula</i> , <i>G. micronodosus</i> ← non striate bisaccates, monosaccates, <i>A. cornutus</i> , <i>M. tentula</i> ← non striate bisaccate pollen ← non striate bisaccates, monosaccates, <i>A. cornutus</i> , <i>M. tentula</i>
					2221				middle	← <i>Granulatisporites "parvus"</i> (sp. 4610)	
				lower	← <i>Gondisporites ewingtonensis</i> (+ <i>I. robusta</i>)						
					← <i>Apiculatisporis cornutus acme</i>						
					upper						
21		212		21	221		middle	← <i>Laevigatosporites vulgaris</i> (sp. 1604)			
		211			lower		← <i>Granulatisporites trisinus</i> (sp. 671 & 3163)				
					upper		← <i>Striatopodocarpites cancellatus</i> group (+ " <i>D. horridus</i> " 305)				
APP1		12	122		PP1		12		← <i>Phaselisporites hamatus</i> (sp. 64) (+ <i>A. "pseudoericianus"</i>)		
				1212				middle	← <i>Pseudoreticulatispora pseudoreticulata</i> (sp. 1595)		
		11	121	1211			11		lower	← <i>Pseudoreticulatispora confluens</i> (sp. 194 & 1771)	
									← <i>Granulatisporites micronodosus</i> (sp. 46)		
								← <i>Granulatisporites tentula</i> (sp. 276)			
						← <i>Protohaploxypinus</i> spp.					

Figure 3: Bowen and Cooper basins Early Permian zonation (Price, 1997b).

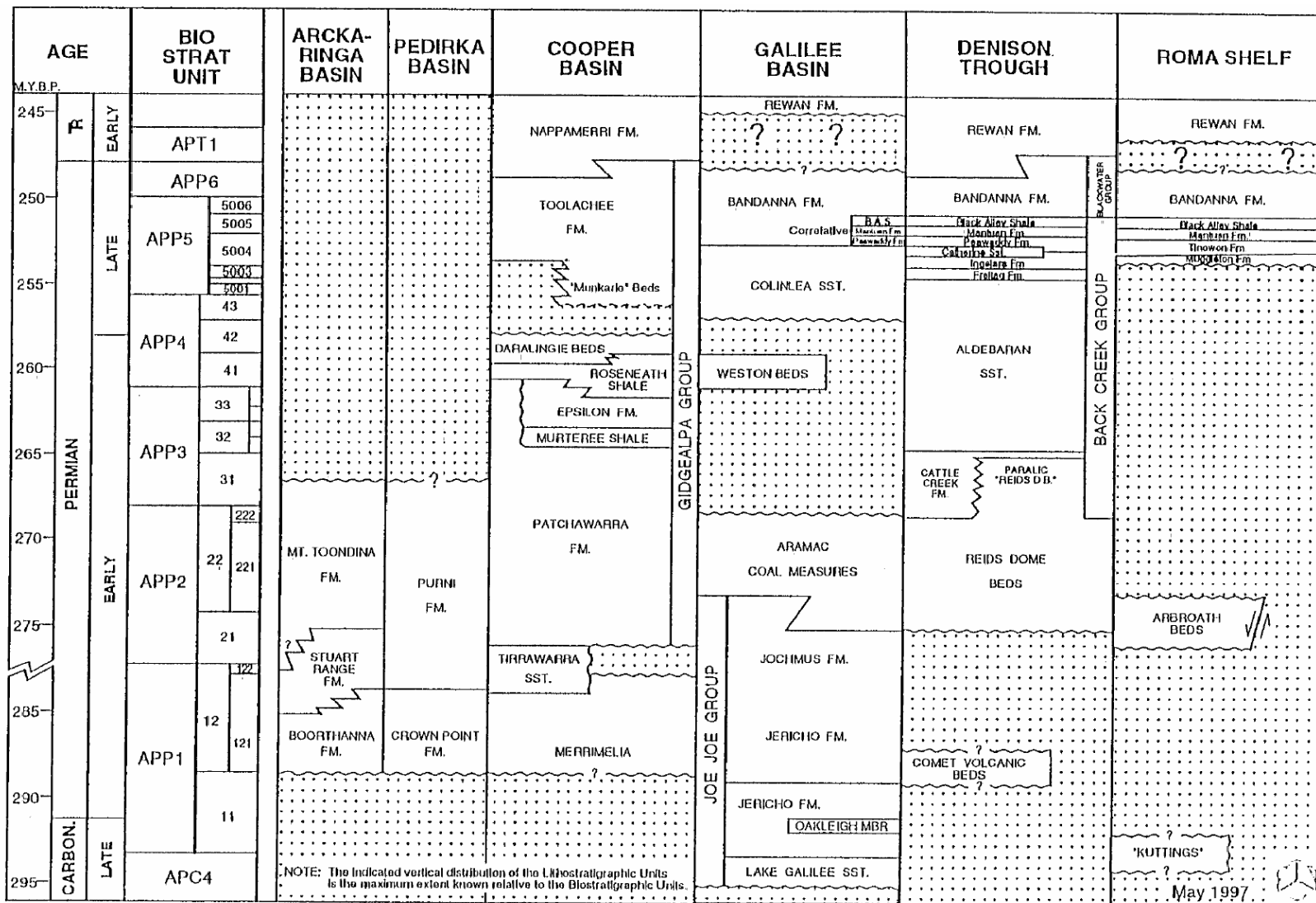


Figure 4: Permian lithostratigraphy (Price, 1997a).

4.1 1183.5 m – 1198.5 m: APK 1; Early Cretaceous

Assignment to APK 1 is based on the presence of *Cicatricosisporites* spp. and the absence of the younger zone indicator *Foraminisporis wonthaggiensis*. This section can be subdivided as discussed below.

4.1.1 1183.5 m – 1190.5 m: APK 122

The assemblages recovered from these 2 samples are assigned to the APK 122 sub-zone because of the presence of *Cyclosporites hughesii* and *Dictyotosporites speciosus*.

In the sample at 1183.5 m the organic matter is composed of abundant plant material. Palynomorphs are abundant and preservation is fair to good. The assemblage includes common bisaccate pollen, frequent inaperturate pollen and *Microcachryidites antarcticus*, and rare *Corallina* spp. Miospores include common *Cyathidites* spp., rare *C. hughesii* and *Ceratospores equalis*, and very rare *D. speciosus*, *Cicatricosisporites australiensis* and *Crybelosporites stylosus*.

The sample at 1190.5 m yielded very little organic matter and palynomorphs are very rare, with fair to good preservation. The assemblage contains common bisaccate pollen and frequent *M. antarcticus*. Miospores include rare *C. hughesii*, *D. speciosus* and *C. equalis*.

The abundant plant material and absence of any marine indicators suggests a non-marine depositional environment at 1183.5 m. No marine indicators were observed in the sample at 1190.5 m, suggesting a non-marine environment at this depth as well.

The miospore colour is yellow (TAI 1/1+), indicating that the sediments are immature for liquid hydrocarbon generation.

4.1.2 1192.5 m: indeterminate

Only a few fragments of inertinite were recovered. The sample is barren of palynomorphs and an age determination is not possible.

4.1.3 1198.5 m: APK 11

Assignment to the APK 11 subzone is based on the presence of *Cicatricosisporites* spp. and the absence of *Cyclosporites hughesii*.

Palynomorphs are common and their preservation ranges from fair to good. The assemblage is dominated by bisaccate pollen, while inaperturate pollen species are frequent and *M. antarcticus* is rare. The assemblage includes very rare *Aequitriradites hispidus*, *Aequitriradites acusus*, *Aequitriradites norrisii*, *C. equalis*, *Cicatricosisporites hughesii*, *C. australiensis*, *Concavissimisporites variverrucatus* and *Dictyotosporites complex*. Upper Permian miospores are very rare and considered to be reworked.

The absence of any marine indicators suggests a non-marine depositional environment.

The miospore colour of pale yellow to yellow (TAI 1/1+) indicates that the sediment is immature.

4.2 1454.5 m – 1456.0 m: APJ 42/43; Middle Jurassic

Assignment to APJ 4 is based on the presence of *Retitriletes circolumensis* and the absence of *Murospora florida*. *Perotrilites whitfordensis* is present in both samples, and *A. norrisii* is present in the sample at 1454.5 m, indicating assignment to APJ 42 – APJ 43. The presence of *Contignisporites ?glebulentus* in the sample at 1454.5 m is an indication of a possible APJ 43 assignment.

The organic matter is composed of common plant material and palynomorphs are abundant in the sample at 1454.5 m and common in the sample at 1456.0 m. Preservation ranges from poor to fair.

The assemblages contain common bisaccate and inaperturate pollen, with frequent *Callialasporites dampieri* and rare *Araucariacites fissus* and *Corollina* spp. Miospores include rare to very rare *Camarozonotiletes ramosus*, *Leptolepidites verrucatus*, *Contignisporites* spp., *D. complex*, *Klukisporites scaberis* and *P. whitfordensis*. In the 1456.0 m sample, *Retitriletes circolumensis* and *Antulsporites saevus* are also present.

Spinose acritarchs are not present in either sample, indicating a non-marine environment of deposition.

Miospore colour is pale yellow to yellow (TAI 1/1+), indicating that the sediments are immature.

4.3 1467.0 m: Indeterminate

This sample yielded rare fragments of inertinite and is barren of palynomorphs. No age determination is possible.

4.4 1499.5 m: APJ 33; Middle Jurassic

The assemblage is assigned to APJ 3 because of the consistent occurrence of *Callialasporites* spp., the presence of *Callialasporites dampieri*, and the absence of the younger zone indicator *Retitriletes circolumensis*. The presence of *Klukisporites lacunus*, indicates correlation with the APJ 33 sub-unit.

The organic matter is composed of frequent degraded plant material and rare wood and inertinite. Palynomorphs are rare, and their preservation ranges from poor to good.

The assemblage contains abundant bisaccate pollen and common inaperturate pollen, with frequent *C. dampieri* and *Corollina* spp. Miospores include rare to very rare *K. lacunus*, *Staplinisporites manifestus*, *Staplinisporites caminus*, *Antulsporites saevus*, *Polycingulatisporites crenulatus* and *Ischyosporites* spp.

Permian miospores and pollen are very rare, and are considered reworking.

Spinose acritarchs were not observed and other algae are rare, suggesting a non-marine environment of deposition.

The pale yellow miospore colour (TAI 1) indicates that the sediments are immature for liquid hydrocarbon generation.

4.5 1500.5 m - ?1502.0 m: APJ 32; Early Jurassic

The assemblage is assigned to APJ 3 on the consistent occurrence of *Callialasporites* spp., the presence of *Callialasporites dampieri*, and the absence of the younger zone indicator *Retitriletes circolumensis*. The presence of *Staplinisporites manifestus*, and the absence of *Klukisporites lacunus* indicates correlation with the APJ 32 sub-unit. The sample at 1502.0 m also contains frequent Permian miospores and pollen. These include very rare *Dulhuntyispora parvithola* and *Didecitriletes ericianus* of Late Permian age. These are possibly reworked, but may indicate that the sample is older.

In the 1500.5 m sample, the organic matter is composed of frequent wood, inertinite and plant material and abundant palynomorphs with fair preservation. In the 1502.0 m sample, the organic matter is composed of frequent brown, degraded plant material, wood and inertinite. Palynomorphs are common and well preserved.

In the 1500.5 m sample, the assemblage contains abundant bisaccate pollen and frequent *A. australis*. In the 1502.0 m sample, bisaccate pollen and *A. australis* are common. Both samples contain common *C. turbatus*, and frequent *C. dampieri* and *Corollina* spp. Miospores include frequent *Retitriletes* spp. and very rare *Staplinisporites caminus* and *S. manifestus*.

No spinose acritarchs were observed, suggesting a non-marine environment of deposition.

The yellow miospore colour (TAI 1+) indicates that the sediments are immature for liquid hydrocarbon generation.

4.6 1504.0 m – 1507.0 m: APP 321 (lower); Early Permian

Assignment to APP3 is based on the presence of *Phaselisporites cicatricosus* and the absence of the younger zone indicator, *Dulhuntyispora granulata*. The presence of *Praecolpatites sinuosus* “corona” and absence of *Propinquispora praetholus* indicates assignment to lower APP 321.

The organic matter is composed of abundant wood and inertinite and common brown plant material. Palynomorphs are common and preservation ranges from poor to good.

The assemblage contains abundant bisaccate pollen, with frequent *Scheuringipollenites maximus*. In the sample at 1504.0 m, *Marsupipollenites triradiatus* is rare, while in the sample at 1507.0 m, it is frequent. *P. sinuosus* “corona” is rare in both samples. Miospores include frequent and diverse

Granulatisporites trisinus, and very rare *P. cicatricosus* and *Granulatisporites "parvus"*.

Spinose acritarchs are not present, suggesting a non-marine environment of deposition.

The yellow miospore colour (TAI 1+) indicates that the sediments are immature.

4.7 1568.8 m – 1580.0 m: APP 221; Early Permian

The assemblages are assigned to APP 22 because of the presence of *G. trisinus*, and absence of the younger zone indicator, *P. cicatricosus*. Assignment to the APP 221 subunit is indicated by the absence of *Gondisporites ewingtonensis* and *Interradispora robusta*, and the rare occurrence of *Apiculatisporis cornutus*.

The organic matter is composed of common dark brown to black degraded organic matter, wood and inertinite. Palynomorphs are very rare in the sample at 1568.8 m and extremely rare in the sample at 1580.0 m. Preservation ranges from very poor to fair in both samples.

Both assemblages contain abundant bisaccate pollen, with common *Scheuringipollenites* spp., frequent monosaccate pollen and rare *M. triradiatus*. In the 1568.8 m sample, miopores include frequent *Acanthotriletes tereteangulatus* and *G. trisinus*, rare *A. cornutus* and *Horriditriletes ramosus*, and very rare *Pseudoreticulatispora pseudoreticulata* and *Converrucosisporites naumoviae*. In the sample at 1580.0 m, miopores include frequent *Acanthotriletes tereteangulatus* and *H. ramosus*, and rare *G. trisinus*.

In the sample at 1568.8 m spinose acritarchs are very rare, suggesting a marginal marine environment of deposition. However, dinoflagellates are also present and considered caving contamination, and it is likely that the spinose acritarchs are also caving contamination. No spinose acritarchs were observed in the 1580.0 m sample, indicating a non-marine environment of deposition.

The miospore colour is yellow (TAI 1+), indicating immaturity for liquid hydrocarbons.

4.8 1589.0 m – 1611.0 m: Indeterminate

Very little organic matter was recovered from the four samples in this interval. A few Permian and Jurassic palynomorphs are present and are considered caving or mud contamination. The samples appear barren of in situ palynomorphs and no age determination is possible.

5 REFERENCES

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Price, P.L. 1997b, Palynostratigraphy of Santos Allunga #1, Cooper – Eromanga Basin, South Australia. APG report 640/03, in Allunga-1 Well Completion Report. Santos Ltd (unpublished report).

TABLE 1: SUMMARY OF PALYNOLOGICAL DATA: KEWARRA-1

DEPTH [M]	SAMPLE TYPE	WEIGHT gm	ORGANIC YIELD *1	MICROFOSSIL YIELD	PRESERVATION *2	PERCENTAGE			DIVERSITY *3		ZONE	ENVIRONMENT *4
						SPINY ACRITARCHS	ALGAE	SPORE-POLLEN	SPINY ACRITARCHS	SPORE-POLLEN		
1183.5	SWC	8.73	0.057	HIGH	3 - 4	0	6	94		MOD	APK 122	NON-MARINE
1190.5	SWC	12.17	0.008	V. LOW	3 - 4	0	10	90		MOD	APK 122	NON-MARINE
1192.5	SWC	10.41	0.010	BARREN							INDETERMINATE	INDETERMINATE
1198.5	SWC	10.85	0.046	MOD	3 - 4	0	5	95		HIGH	APK 11	NON-MARINE
1454.5	SWC	10.57	0.132	MOD	4 - 5	0	3	97		HIGH	APJ 42/43	NON-MARINE
1456.0	SWC	8.41	0.024	HIGH	4 - 5	0	5	95		HIGH	APJ 42/43	NON-MARINE
1467.0	SWC	8.35	0.012	BARREN							INDETERMINATE	INDETERMINATE
1499.5	SWC	9.47	0.032	LOW	3 - 5	0	2	98		MOD	APJ 33	NON-MARINE
1500.5	SWC	10.35	0.116	HIGH	3 - 4	0	7	93		MOD	APJ 32	NON-MARINE
1502.0	SWC	11.39	0.070	MOD	3	0	2	98		MOD	APJ 32 OR OLDER	NON-MARINE
1504.0	SWC	10.02	0.040	MOD	3 - 5	0	10	90		MOD	APP 321 (LOWER)	NON-MARINE
1507.0	SWC	9.78	0.041	MOD	3 - 4	0	5	95		MOD	APP 321 (LOWER)	NON-MARINE
1568.8	SWC	9.20	0.054	V. LOW	4 - 5	+	9	81	EX. LOW	MOD	APP2 (?APP 221)	?MARGINAL MARINE
1580.0	SWC	8.43	0.059	EX. LOW	4 - 5+	0	4	96		LOW	APP2 (?APP 221)	NON-MARINE
1589.0	SWC	13.10	0.008	BARREN							INDETERMINATE	INDETERMINATE
1593.0	SWC	10.82	0.009	BARREN							INDETERMINATE	INDETERMINATE
1605.0	SWC	10.38	0.010	BARREN							INDETERMINATE	INDETERMINATE
1611.0	SWC	10.99	0.009	BARREN							INDETERMINATE	INDETERMINATE

*1 ORGANIC YLD=VOL(cc)/WGHT(g)	*2 NOTE: PRESERVATION	*3 DIVERSITY	*4 ENVIRONMENTS	ACRITARCH CONTENT %	ACRITARCH DIVERSITY
<0.01 : EXTREMELY LOW	1 = SUPERB	V HIGH 30+ SPECIES			
0.01 - 0.10 : LOW	2 = EXCELLENT	HIGH 20-29 SPECIES	SHELFAL MARINE	61 to 100	MOD-V. HIGH
0.1 - 0.5 : MODERATE	3 = GOOD	MOD 10-19 SPECIES	NEARSHORE MARINE	6 to 60	MOD - HIGH
>0.5 : HIGH	4 = FAIR	LOW 5-9 SPECIES	ESTUARINE-LAGOONAL	UP TO 100	LOW- VERY LOW
	5 = POOR	EX LOW	MARGINAL MARINE	<1 to 5	LOW- VERY LOW
				NON-MARINE (UNDIFF)	NO SPINY ACRITARCHS

TABLE 1

P & R GEOLOGICAL CONSULTANTS PTY LTD

CLIENT: BEACH PETROLEUM LIMITED
 WELL: KEWARRA-1
 AREA: ATP 663P, COOPER BASIN, QUEENSLAND
 ANALYST: R. PURCELL DATE: JUNE 2007
 CHART: RANGE CHART BY LOWEST APPEARANCE - MESOZOIC

DEPTH (M)	SPECIES INDEX	MIOSPORES	POLLEN
1183.5	SWC	1 Miospores (undiff.)	
1190.5	SWC	2 Anisopites saevus	
1192.5	SWC	3 Cyathites spp.	
1198.5	SWC	4 Dicyophyllidites harrisi	
1454.5	SWC	5 Foveosporites montonensis	
1456.0	SWC	6 Foveosporites spp.	
1467.0	SWC	7 Granulatisporites sp.	
1499.5	SWC	8 Ischyosporites crateris/Tribosporites antiquus	
1500.5	SWC	9 Neorastrickia spp.	
1502.0	SWC	10 Osmundacidites wellmani	
1504.0	SWC	11 Retitilites rosewoodensis	
1507.0	SWC	12 Retitilites spp.	
1568.8	SWC	13 Staplinisporites caminus	
1580.0	SWC	14 Staplinisporites manifestus	
1589.0	SWC	15 Stereisporites spp.	
1593.0	SWC	16 Converrucosporites sp.	
1605.0	SWC	17 Densosporites sp.	
1611.0	SWC	18 Obusisporites sp. of O. canadensis	
		19 Obusisporites of yarragadensis	
		20 Striatella sp.	
		21 Verucosporites spp.	
		22 Baculatisporites comaunensis	
		23 Klucksiporites lacunus	
		24 Klucksiporites spp.	
		25 Polychugatisporites crenulatus	
		26 Rogalskaiasporites spp.	
		27 Aequitriradites sp.	
		28 Camarozonitilites divosus	
		29 Camarozonitilites ramosus	
		30 Dicyophyllidites equestris	
		31 Contignisporites spp.	
		32 Gleicheniidites senonicus	
		33 Klucksiporites scaberis	
		34 Lepolepidites verrucatus	
		35 Lycopodioidites spp.	
		36 Neveisporites spp.	
		37 Perotriletes whitfordensis	
		38 Retitilites austroclavardites	
		39 Retitilites circolumens	
		40 Staplinisporites perforatus	
		41 Staplinisporites telatus	
		42 Aequitriradites norrisii	
		43 Anapiculatisporites dawsonensis	
		44 Contignisporites glebulentus	
		45 Dicyotopites complex	
		46 Aequitriradites acutus	
		47 Aequitriradites hispidus	
		48 Ceratospites equalis	
		49 Clatricosporites australensis	
		50 Clatricosporites hughesii	
		51 Concauissimiporites crassatus	
		52 Concauissimiporites variverrucatus	
		53 Matonisporites crassianguilatus	
		54 Murospora florida	
		55 Osmundacidites wellmani	
		56 Perotriletes whitfordensis	
		57 Pinuspollenites spp.	
		58 Podocarpidites spp.	
		59 Podosporites sp.	
		60 Polychugatisporites crenulatus	
		61 Retitilites austroclavardites	
		62 Retitilites circolumens	
		63 Retitilites rosewoodensis	
		64 Retitilites spp.	
		65 Reworking - Permian	
		66 Rogalskaiasporites spp.	
		67 Staplinisporites caminus	
		68 Staplinisporites manifestus	
		69 Staplinisporites perforatus	
		70 Staplinisporites telatus	
		71 Stereisporites spp.	
		72 Striatella sp.	
		73 Verucosporites spp.	
		74 Vitreisporites pallidus	
		75 Vitreisporites pallidus	
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		199 Vitreisporites pallidus	
		200 Vitreisporites pallidus	

P & R GEOLOGICAL CONSULTANTS PTY LTD

CLIENT: BEACH PETROLEUM LIMITED
 WELL: KEWARRA-1
 AREA: ATP 663P, COOPER BASIN, QUEENSLAND
 ANALYST: R. PURCELL DATE: JUNE 2007
 CHART: RANGE CHART BY LOWEST APPEARANCE -
 PERMIAN MIOSPORES & POLLEN

DEPTH (M)	SPECIES INDEX	MIOSPORES (undiff.)	POLLEN
1183.5	SWC		
1190.5	SWC		
1192.5	SWC		
1198.5	SWC		
1454.5	SWC		
1456.0	SWC		
1467.0	SWC		
1499.5	SWC		
1500.5	SWC		
1502.0	SWC		
1504.0	SWC		
1507.0	SWC		
1568.8	SWC		
1580.0	SWC		
1589.0	SWC		
1593.0	SWC		
1605.0	SWC		
1611.0	SWC		

DEPTH (M)	SPECIES INDEX	MIOSPORES (undiff.)	POLLEN
1	Acanthotriletes superbus	Miospores (undiff.)	Bisaccates (undiff)
2	Acanthotriletes tereteangulatus	Acanthotriletes tereteangulatus	Alisporites spp.
3	Alisporites spp.	Brevitriletes levis	Barakarites rotatus
4	Apiculatisporis cornutus	Gondisporites spp.	Florinites eremus
5	Barakarites rotatus	Granulatisporites trisinus	Marsupollenites striatus
6	Bascanisporites undosus	Horriditriletes ramosus	Marsupollenites triradiatus
7	Bisaccates (undiff)	Jayantisporites variabilis	Plicatipollenites spp.
8	Brevitriletes levis	Laevigatosporites vulgaris	Potoniisporites spp.
9	Calamospora sp.	Microbaculispora tentula	Protoniopollenites spp.
10	Converrucosporites naumovae	Reusotriletes diversiformis	Protonaploxypinus spp.
11	Cyclogranisporites sp.	Apiculatisporites cornutus	Scheuringipollenites maximus
12	Didecitriletes ericianus	Calamospora sp.	Scheuringipollenites ovatus
13	Didecitriletes sp.	Converrucosporites naumovae	Secarisporites lacunatus
14	Dulhuntyispora parvithola	Didecitriletes ericianus	Striatoabellites multistriatus
15	Florinites eremus	Didecitriletes sp.	Striatopodocarpidites fuscus
16	Gondisporites spp.	Dulhuntyispora parvithola	Striatopodocarpidites spp.
17	Grandispora segrovesii	Florinites eremus	Vittatina fasciolata
18	Granulatisporites "parvus"	Gondisporites spp.	Striatoabellites multistriatus
19	Granulatisporites trisinus	Grandispora segrovesii	Vitreisporites spp.
20	Granulatisporites trisinus "microsubtilis"	Granulatisporites "parvus"	Striatopodocarpidites fuscus
21	Granulatisporites trisinus "subtilis"	Granulatisporites trisinus "microsubtilis"	Tiwarisporites simplex
22	Horriditriletes ramosus	Granulatisporites trisinus "subtilis"	Vitreisporites spp.
23	Indotriaradites niger	Horriditriletes ramosus	Vittatina fasciolata
24	Indotriaradites spp.	Indotriaradites niger	
25	Jayantisporites variabilis	Indotriaradites spp.	
26	Kraeuselisporites sp.	Jayantisporites variabilis	
27	Laevigatosporites vulgaris	Kraeuselisporites sp.	
28	Leiotriletes directus	Laevigatosporites vulgaris	
29	Limitsporites rectus	Leiotriletes directus	
30	Lophotriletes novicus	Limitsporites rectus	
31	Lophotriletes scotinus	Lophotriletes novicus	
32	Marsupollenites striatus	Lophotriletes scotinus	
33	Marsupollenites triradiatus	Marsupollenites striatus	
34	Microbaculispora "perfecta"	Marsupollenites triradiatus	
35	Microbaculispora sp.	Microbaculispora "perfecta"	
36	Microbaculispora tentula	Microbaculispora sp.	
37	Miospores (undiff.)	Microbaculispora tentula	
38	Plicatipollenites spp.	Miospores (undiff.)	
39	Potoniisporites spp.	Plicatipollenites spp.	
40	Praeocarpites sinuosus "corona"	Potoniisporites spp.	
41	Procoronospora spinosa	Praeocarpites sinuosus "corona"	
42	Pseudoreticulatisporites pseudoreticulata	Procoronospora spinosa	
43	Punctatisporites spp.	Pseudoreticulatisporites pseudoreticulata	
44	Reusotriletes diversiformis	Punctatisporites spp.	
45	Reworking	Reusotriletes diversiformis	
46	Scheuringipollenites maximus	Reworking	
47	Scheuringipollenites ovatus	Scheuringipollenites maximus	
48	Secarisporites lacunatus	Scheuringipollenites ovatus	
49	Striatoabellites multistriatus	Secarisporites lacunatus	
50	Striatopodocarpidites cancellatus	Striatoabellites multistriatus	
51	Striatopodocarpidites fuscus	Striatopodocarpidites cancellatus	
52	Striatopodocarpidites spp.	Striatopodocarpidites fuscus	
53	Tiwarisporites simplex	Striatopodocarpidites spp.	
54	Vitreisporites spp.	Tiwarisporites simplex	
55	Vittatina fasciolata	Vitreisporites spp.	
56		Vittatina fasciolata	
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 WELL: KEWARRA-1
 AREA: ATP 663P, COOPER BASIN, QUEENSLAND
 ANALYST: R. PURCELL DATE: JUNE 2007
 CHART: RANGE CHART BY LOWEST APPEARANCE - ACRITARCHS

DEPTH (M)	ACRITARCHS								
		1	2	3	4	5	6	7	8
1183.5	SWC	5	1						
1190.5	SWC	10	+						
1192.5	SWC								
1198.5	SWC	4	1						
1454.5	SWC	3	+						
1456.0	SWC	4	1						
1467.0	SWC								
1499.5	SWC	2							
1500.5	SWC	2	5						
1502.0	SWC		2						
1504.0	SWC	2	4	4		+		+	
1507.0	SWC	1	+	2		+	1	+	
1568.8	SWC	5	1	3	+				
1580.0	SWC	4							
1589.0	SWC								
1593.0	SWC								
1605.0	SWC								
1611.0	SWC								

SPECIES INDEX	
Botryococcus sp.	2
Brazilia scissa	3
Leiosphaeridia spp.	1
Maculatisporites minimus	5
Mehlisphaeridium regulare	8
Micrhystridium sp.	4
Peltacystia venosa	6
Tetraporina sp.	7

10/04/2007

KEWARRA 01 SWC DESCRIPTIONS:

1	2.0	1611.0	SANDSTONE, white, very fine, sub-angular to sub-rounded, well sorted, abundant clay matrix, nil to very poor porosity.
2	3.5	1605.0	SANDSTONE, a.a.
3	3.0	1593.0	SANDSTONE, white, very fine, sub-angular to sub-rounded, well sorted, abundant clay matrix, trace carbonaceous laminae, friable to moderately hard, weak silica cement, very poor porosity.
4	2.5	1589.0	SANDSTONE, a.a.
5	2.0	1580.0	SILTSTONE, dark grey, carbonaceous.
6	2.5	1568.8	SILTSTONE, very dark brown to dark grey-brown, very argillaceous and grades to claystone.
7	2.5	1552.5	SANDSTONE, white to very pale brown, very fine to fine, occasional medium, sub-angular to sub-rounded, moderate to well sorted, rare lithics, moderate to abundant clay matrix, weak silica cement, friable, fair porosity. 100% bright yellow-white fluorescence with moderately fast blooming cut and moderately thick bright bluish white residue ring Petroliferous odour.
8	2.0	1549.0	SANDSTONE, white to very pale brown, very fine to fine, occasional medium, sub-angular to sub-rounded, moderate to well sorted, rare lithics, rare carbonaceous laminae, abundant clay matrix, weak silica cement, friable, fair porosity. Nil fluorescence.
9	1.5	1546.0	SANDSTONE, a.a. Nil fluorescence.
10	2.0	1545.0	SANDSTONE, a.a. 2% fluorescence a.a. – patchy.
11	1.5	1530.0	SANDSTONE, white, very fine to fine, occasional medium, sub-angular to sub-rounded, moderate sorted, moderate to abundant clay matrix, weak silica cement, friable, poor to fair porosity. 100% bright bluish-white fluorescence with moderately fast blooming cut and moderately thick bright bluish white residue ring Petroliferous odour.
12	1.5	1527.0	SANDSTONE, a.a. 80% moderately bright bluish-white fluorescence a.a. Petroliferous odour.
13	2.0	1507.0	SILTSTONE, very dark grey to black, carbonaceous.
14	2.5	1504.0	SILTSTONE, dark grey to dark grey-brown, carbonaceous.
15	2.5	1502.0	SILTSTONE, dark brown, carbonaceous, minor white very fine sandy laminae.
16	2.5	1500.5	SILTSTONE, dark brown, carbonaceous, argillaceous.
17	2.0	1499.5	SILTSTONE, a.a.
18	1.5	1467.0	SANDSTONE, translucent white, very fine to medium, sub-angular to sub-rounded, moderate sorted, minor clay matrix, weak silica cement, friable, fair to good porosity. 100% bright bluish-white fluorescence with fast blooming cut and moderately thick bright bluish white residue ring Strong petroliferous odour.
19	1.5	1465.5	SANDSTONE, white, very fine, sub-angular to sub-rounded, well sorted, brownish white claystone laminae, abundant white clay matrix, silic cement, poor to fair porosity. Nil fluorescence.
20	1.5	1463.5	SILTSTONE, light grey, light to moderate brown, argillaceous.

10/04/2007

21	2.5	1461.5	SILTSTONE, light to moderate grey to grey-brown, argillaceous, with white very fine grained sandstone laminae. Nil fluorescence.
22	2.5	1461.0	SANDSTONE, white, very fine to fine, sub-angular to sub-rounded, moderate sorted, abundant clay matrix, brown silty carbonaceous laminae and siltstone, friable to moderately hard, poor porosity. Nil fluorescence.
23	2.5	1460.0	SILTSTONE, light brown, argillaceous, minor very fine grained sandstone laminae / bands. Nil fluorescence.
24	2.5	1457.0	SANDSTONE, white to pale grey, very fine to fine, sub-angular to sub-rounded, moderate sorted, abundant clay matrix, brown silty carbonaceous laminae and siltstone bands, friable to moderately hard, poor porosity. Nil fluorescence.
25	2.0	1456.0	SANDSTONE, white, very fine, sub-angular, moderate sorted, abundant white clay matrix, grades to sandy claystone in part, very poor porosity. Nil fluorescence.
26	2.0	1454.5	SILTSTONE, dark grey to grey-brown, argillaceous, minor carbonaceous / coal laminae.
27	2.5	1198.5	SILTSTONE, moderate to dark brown to grey-brown, carbonaceous and laminated with white to pale grey very fine sandstone laminae. No fluorescence,
28	3.0	1192.5	SANDSTONE, white, very fine, sub-angular, moderate to well sorted, moderate clay matrix, weak silica cement, friable, fair porosity. 100% bright bluish-white fluorescence with fast blooming cut and moderately thick bright bluish white residue ring Petroliferous odour.
29	3.0	1190.5	SANDSTONE, white, very fine, silty, sub-angular, moderate to well sorted, abundant clay matrix, weak silica cement, poor porosity. No fluorescence,
30	2.5	1183.5	SILTSTONE, moderate to dark brown to grey-brown, carbonaceous and laminated with white to pale grey very fine sandstone laminae. No fluorescence,